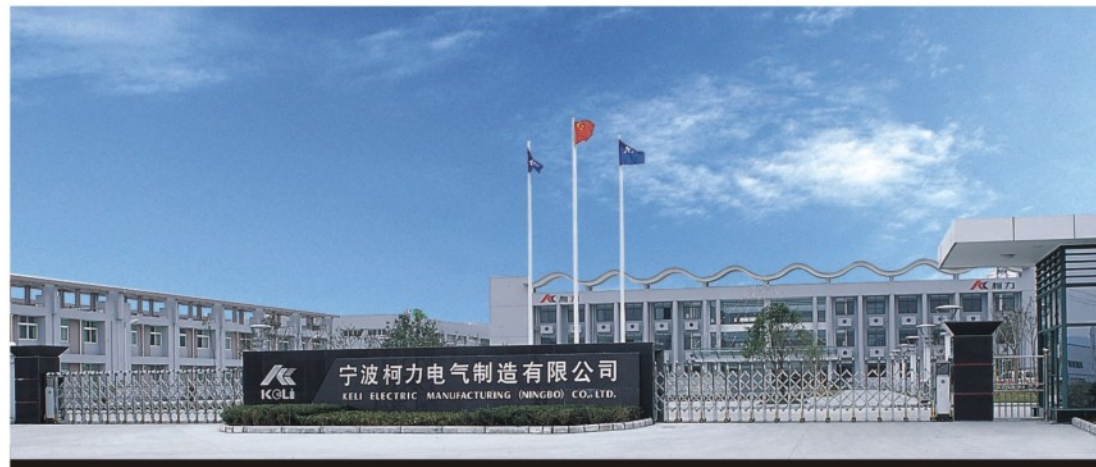


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宁波柯力电气制造有限公司

Keli Electric Manufacturing (Ning Bo) Co.,Ltd.

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服务热线/Service free number

400-887-4165 800-857-4165

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Keli Electric Manufacturing (Ning Bo) Co.,Ltd.

宁波柯力电气制造有限公司



数字传感器及仪表

Digital load cell and indicator



企 业 简 介

宁波柯力电气制造有限公司，是目前中国最大的称重元件公司。公司专业研制和生产高精度称重传感器、称重仪表、电子称重系统和分析仪器，凭借雄厚的技术开发力量和精良的生产、检测实验设备，年生产能力达到300万只传感器、60万台称重仪表、6500台（套）称重系统和2万套分析仪器。

公司是中国衡器协会副理事长单位、中国《工业计量》协会副理事长单位、国家级高新技术企业、浙江省质量信得过企业，公司获得“全国轻工业卓越绩效先进企业”（2010年），宁波“市级工程技术中心”、江北区“510工程企业”、浙江省名牌产品、宁波市名牌产品、宁波市知名商标等多项殊荣。

公司严格依照国际法制计量组织OIML R60号标准组织生产，在企业内部，建立、实施和保持了ISO9001：2008质量管理体系，2008年初又分别通过了标准化良好行为A级证书和计量检测能力确认合格证书，制造的传感器具有防腐、防水、防爆、防震、防雷击等特点，并通过了桥式QS、柱式ZSF、波纹管HSX、悬臂梁SB、悬臂梁SQB、S型DEE等五十多种系列产品的OIML国际产品认证和悬臂梁SQBY、桥式QSEC的NTEP国际产品认证；传感器桥式QS、悬臂梁SB、悬臂梁SQB、柱式ZS、扭环式NHS等26种系列产品和仪表 XK3118T1/T3/T4/T5/T10通过了CE认证，深受用户青睐。

公司产品销售网络遍布全国，其中钢制传感器长期以来占据了国内市场50%以上的销售份额。2000年，柯力在衡器行业率先设立800免费服务热线，2007年又开通了现场用户手机拨打的400全国服务热线。公司已在全国各省市设立了30个区域办事处，并在沈阳、石家庄、郑州、济南、常州、兰州、武汉、重庆、广州、青岛、西安等10个城市设立国内售后服务点，已经建立了完整的市场、销售、服务体系。在国际市场的开拓中，已与100多个国家与地区的客商建立了广泛的贸易合作关系，并在法兰克福及新加坡成立柯力欧洲公司及柯力新加坡公司，“柯力品牌”全面走向了国际市场。

柯力坚持“求实创新、服务员工、成就客户”的企业理念，公司导入职业健康安全管理体系OHSAS体系。2009年底，开始在公司试运行。2010年7月，取得《职业健康安全管理体系认证证书》。

公司重视新产品开发和技术创新，实施品牌差异化路线，推出SNK、OAP等高中端系列品牌。在技术领域已形成了称重传感器、仪器仪表、称重系统、压力传感器、物联网技术、分析仪器等系列化的人才队伍；在实验设备上形成了表面处理，环境实验、振动实验、疲劳实验、EMC实验、材料实验、ROHS检测实验、应力应变实验、温度试验、冲击试验、包装跌落等十一大实验室，为公司的进一步快速发展奠定了雄厚的技术基础。

今天，柯力正在积极建设国际最大的称重传感器生产基地和筹建物联网事业部。按照国际化、科技化、多元化、集团化、服务化的发展战略，通过运用资本经营，柯力正从单一传感器生产商向传感器、仪表、物联网的综合性公司发展，努力建设成为国际一流的物联网公司，成为行业内全球市场不可或缺的一员。



BRIEF INTRODUCTION

Keli Electric Manufacturing (Ningbo) Co., Ltd. is the largest manufacturer of load cells in China so far. We are specialized in producing high precision load cells, indicators and electronic weighing systems. Our annual production capacity is up to 3 million pieces of load cells, 0.6 million weighing indicators and 6500 sets of weighing systems, with our strong R&D ability and advanced equipments for production, inspection and experiment.

Keli is the vice-chief-director of CWIA (China Weighing Instrument Association), the vice-chief-director of China Industrial Measurement Association, National High-tech Enterprise, Enterprise of Quality of Zhejiang Province. Our company also gain reputation of National Light Industry Advanced Performance Enterprise (2010), City-level Engineering Center of Ningbo City, "510 Project Enterprise" of Jiangbei District, Brand Product of Zhejiang Province, Brand Product of Ningbo City, Famous Brand of Ningbo City, etc.

Strictly according to the OIML R60 and ISO9001:2008, we can supply various load cells with high precision, reliable performance and super advantages in anti-erosion, waterproof, anti-explosion, shockproof and anti-lightning as well. 50 kinds of products have been OIML approved including double ended shear beam type QS, column type ZSF, bellow type HSX, shear beam type SB and SQB, S type DEE etc. And shear beam type SQBY, double ended shear beam type QSEC have been NTEP approved. 26 series of load cell including double ended shear beam type QS, shear beam type SB and SQB, column type ZS, ring type NHS and indicators XK3118T1/T3/T5/T10 have been CE approved. All these products are deeply welcome to our clients.

We have set up a wide sales network all over the country and occupied more than 50% share of domestic market for alloy load cell. In 2000 Keli was the first one who set up 800 hotline in Chinese weighing industry. In 2007 we started the 400 hotline which could be dialed by cell phone. We have set up 30 offices all over the country, and after-service office in Shenyang, Shijiazhuang, Zhengzhou, Jinan, Changzhou, Lanzhou, Wuhan, Chongqing, Guangzhou, Qingdao, Xi'an. we have set up good partnerships with customers from more than 100 countries, Keli brand has already walked toward international market successfully.

Keli insists on "practical & innovative, accomplishes the staff, the achievement customer" and introduced OCCUPATIONAL HEALTH & SAFETY ADVISORY SERVICES (OHSAS), beginning in the end of 2009, and was approved OHSAS Certificate in June of 2010.

Concentrating on new products developing and brand differentiation, and carrying out high-end brand, like SNK, OAP etc. We have formed working teams in load cells, indicators, weighing systems, pressure sensor, construction load cells and internet of things technology. Meanwhile, we have total 11 modern large labs for surface treatment, Environment testing, oscillation testing, fatigue testing, EMC testing, material analysis, ROHS Inspection, stress strain testing, temperature testing, impacting testing and packaging drop testing, which have established solid foundation for the further rapid development for Keli.

Now, Keli has been striving to be the largest manufacturer of weighing components and preparing to build the division of the Internet of Things. As Internationalization technology, Science, System, Group, service direction, keli places emphasis on developing related industries of internet of things and now is developing from a producer of load cell to a supplier of whole set weighing system, consequently grows up to one of the most important suppliers of weighing market.

Keli Electric

精准品质 柯力制造

Precise Quality Made by KELI

品质与服务 Quality & Service

我们的品质保证 QUALITY Guarantee



我们的售后服务 Customer Service

我公司提供的产品均是具有自主知识产权，自主研发、自主生产的产品。为用户提供高效全面的服务，最大程度的保障用户的切身利益是我们坚持不变的服务原则。为了给用户提供最高品质的服务，我们视服务为最重要的产品，力求做到服务的专业化、多元化、层次化，为用户提供包括产品咨询、产品设计、项目实施、项目维护、专业培训等在内的长期、全面的技术服务与支持。并承诺提供最佳的技术支持及售后服务，保证产品运行于最佳状态。

All of our products have Independent Intellectual Property Rights, Independent research, Independent produce, Supplying high-efficiency and all-around service to our customer, guarantee customer's Benefit in whole hog are our perseverance service principle. In order to supply top-quality service to customer, we are trying our best to make our service more specialization, multi-element, multi-level, Supplying long term, all-around technic service and support which in the field of produce consultation, produce design, project implementation and maintenance, professional training, meanwhile, we promise to supply best technic support and sales service to guarantee our product in the best situation.



宁波柯力电气制造有限公司
KELI ELECTRIC MANUFACTURING(NINGBO)CO.,LTD.

仪表 传感器 物联网



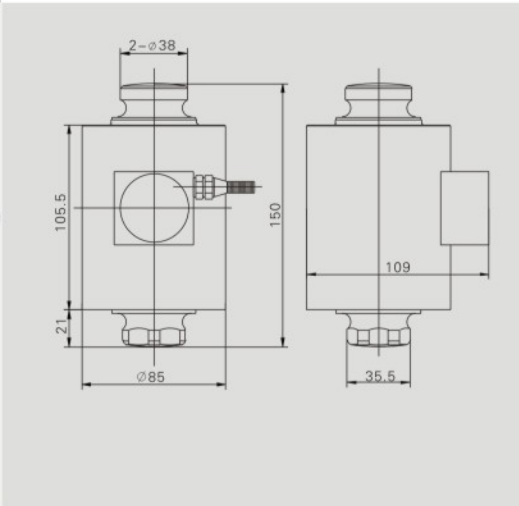
15年的耕耘筑就了中国衡器40%的市场占有率
每年为世界各国开发上百种新型传感器，并获得国际认证
30多个国内办事处和2家国外公司织就全球营销服务网络

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Http://www.kelichina.com



TECHNICAL PARAMETER

数据刷新速率Data refresh frequency:	50Hz
通讯波特率Communication baud rate:	9600BPS
综合精度Accuracy:	± 0.02%F.S
蠕变Creep (30min) :	± 0.02%F.S
温度系数Temperature coefficient:	± 0.02%F.S/10℃
使用温度范围Temperature range,operating:	-30~+70℃
零点输出 Zero balance :	± 0.1%F.S
安全过载 Safe overload:	150%F.S
防护等级 Protection class:	IP68
推荐输入电压Recommended input voltage:	9~12VDC
最大输入电压Max input voltage:	20VDC
最大信号传输距离Max signal transmission distance:	1200m

ZSNC-D

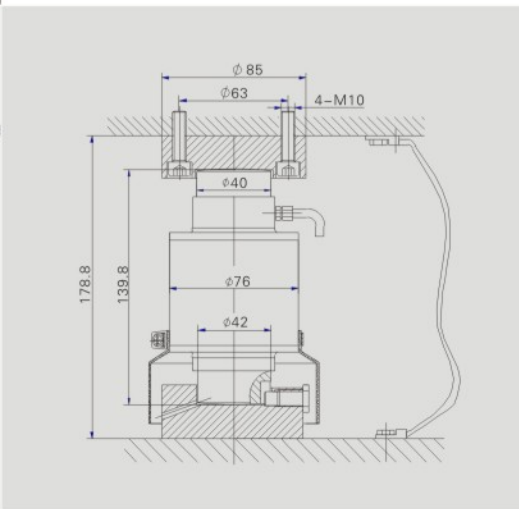
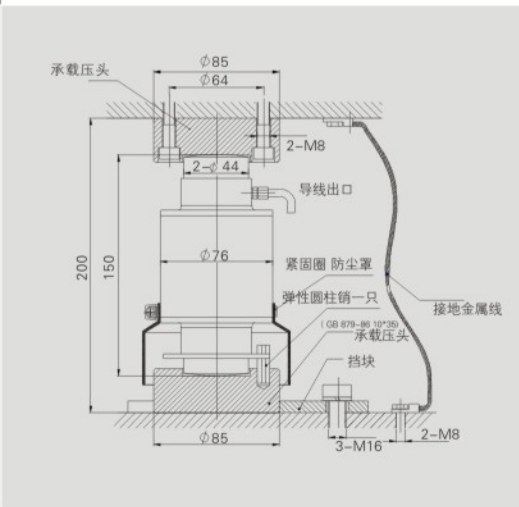
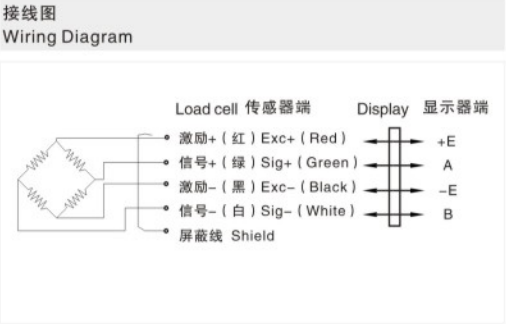
额定载荷Rated load:	20, 25, 30, 40, 50t
额定输出Rated Output:	20000,25000,30000,40000,50000码

ZSF-D10-50t

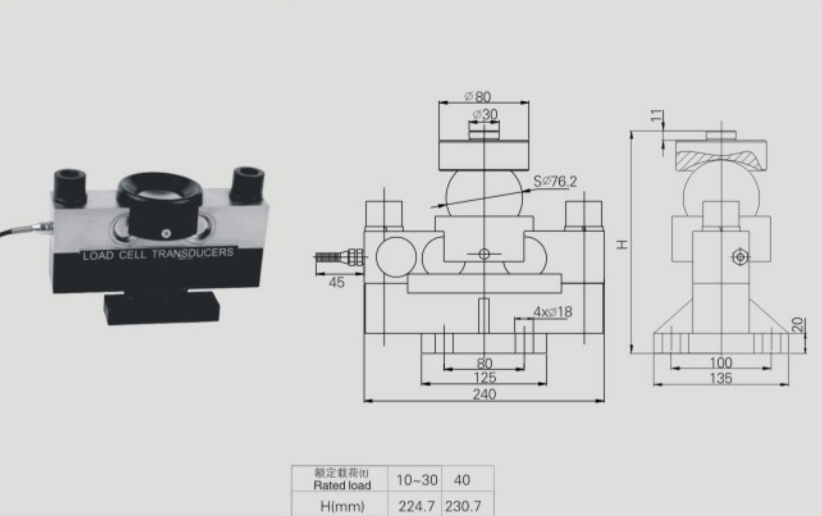
额定载荷Rated load:	10, 15, 20 / 25, 30, 40, 50t
额定输出Rated Output:	20000 / 25000,30000,40000, 50000码

ZSGB-D10-30t

额定载荷Rated load:	10, 15, 20 / 25, 30t
额定输出Rated Output:	20000 / 25000,30000码



QS-D10-40tL



额定载荷(t) Rated load	10~30	40
H(mm)	224.7	230.7

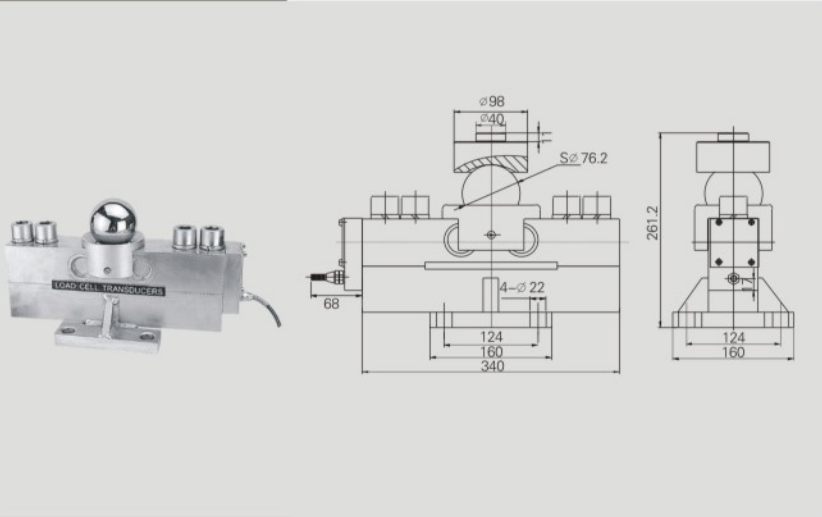
TECHNICAL PARAMETER

数据刷新速率Data refresh frequency:	50HZ
通讯波特率Communication baud rate:	9600BPS
综合精度Total Error:	± 0.02%F.S
蠕变Creep error (30min) :	± 0.02%F.S
温度系数Temperature effect sensitivity:	± 0.02%F.S/10℃
使用温度范围Temperature range:	-30~+70℃
零点输出 Zero balance :	± 0.1%F.S
安全过载 Safe overload:	150%F.S
防护等级Protection class:	IP68
推荐输入电压Recommended input voltage:	9~12VDC
最大输入电压Max input voltage:	20VDC
最大信号传输距离Max signal transmission distance:	1200m

QS-D10-40tL

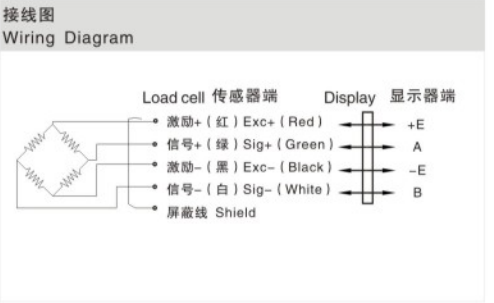
额定载荷Rated load:	10, 15, 20 / 25, 30, 40t
额定输出Rated Output:	20000 25000,30000,40000码

QS-D50t H,M

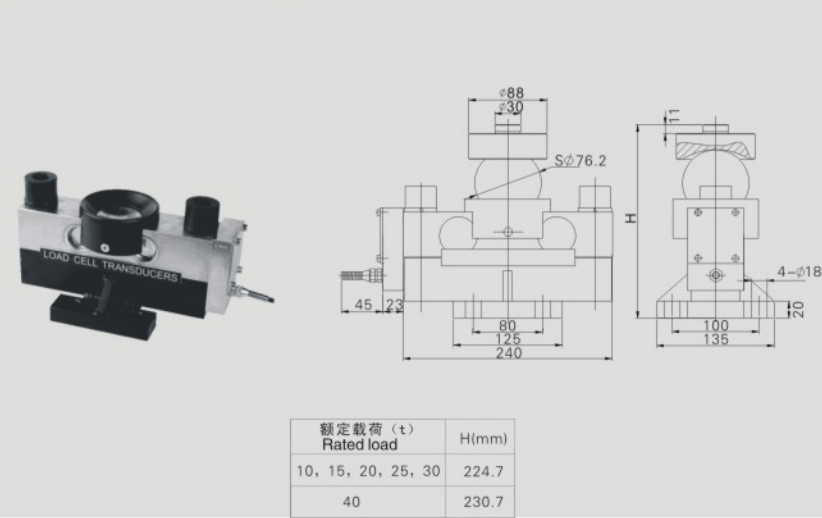


QS-D10-50tH QS-D10-50tM

额定载荷Rated load:	10, 15, 20 / 25, 30, 40, 50t
额定输出Rated Output:	20000 25000,30000,40000, 50000



QS-D10-40t H,M



额定载荷 (t) Rated load	H(mm)
10, 15, 20, 25, 30	224.7
40	230.7

D2002E-A



<< D2002E-A

产品简介：

D2002E-A是一款数字式电子称重仪表，适用于1~12个C型和E型数字传感器的静态汽车衡系统。

特点及基本功能：
柯力C型和E型数字传感器可以混合连接；
配合专用加密配件，现场一键加/解密；
支持万用表检测仪表的大屏幕接口（RS232）、通讯接口、数字传感器接口；
支持按键检测；
E/C型数字传感器混合连接时，支持自动组秤方式；
全部配接E型数字传感器，有2种自动组秤方式；
全部配接C型数字传感器，有1种自动组秤方式；
仪表与传感器通讯支持加密功能；
自动调角差功能和手动调角功能；
具有超载记录存储及打印功能；
数字传感器内码查看功能；
数字传感器状态快速检测功能；
两段分度值，两段量程可选；
非线性修正功能；
称重记录存储/删除/断电保护；
可贮存500组车号皮重，可贮存1000组称重记录；
标定与参数设置分开操作；
配置大屏幕接口；
配置串行通讯接口；
配置标准并行打印接口，可自定义打印格式；
全面配置EMC电磁兼容防护措施。

主要技术参数：
数字传感器接口：RS485方式，最大传输距离≤75米
传输速率：E协议19200 bps，C协议9600bps；
数字传感器供电电源：DC12V/≈750mA
数字传感器连接数量：1~16个
数字传感器通讯通讯协议：柯力E协议和柯力C协议
显示：7位LED数码管，7个状态指示符；
时钟：自动闰年、闰月，可显示年/月/日、时/分/秒
大屏幕显示接口：20mA电流环恒流源串行输出，波特率600，传输距离≤100米；
串行通讯接口：配置标准RS232，波特率1200~9600可选
外接打印机接口：配置标准并行打印接口，推荐ESPON LQ-300K/300K + II、ESPON LQ680/730/1600K，松下KX-P1121/1131，得实DS300/2600宽行打印机；
数据贮存：可贮存500组车号皮重，1000组称重记录；
仪表电源：交流110~220V，50Hz；辅助电源DC 12V/7Ah免维护蓄电池（可随机带充电）
外型：320×130×230 mm
自重：约3.6公斤

Introduction

D2002E-A is a digital electric weighing indicator suitable for static weighbridge system equipped with 1~12 pieces of C-type and E-type digital load cells.

Characteristics And Basic Functions
Support the mixed use of C-type and E-type digital load cells made by KELI;
On-site one-key encryption / decryption with dedicated tool.
Support the multimeter's checking to scoreboard port (RS232), communication port and load cell port;
Support key checking;
Support automatic scale-assembly in case of mixed use of E/C-type load cells;
Support 2 types of automatic scale-assembly for exclusive use of E-type load cell;
Support 1 types of automatic scale-assembly for exclusive use of C-type load cell;
Support encryption to the communication between indicator and load cell;
Automatic and manual adjustment of corner difference;
Memory and print function for overloading records;
Verification of internal code for digital load cell;
Fast checking of the status of digital load cell;
2 ranges of division value and 2 ranges of capacities optional;
Correction of non-linearity;
Save/delete weighing records and power-down protection;
Storage of 500 sets of vehicle no. and tare weight, or 1000 sets of weighing records.
Calibration and parameter setting is handled seperately;
With scoreboard port;
With serial communication port;
With standard parallel printing port and custom printing format;
Equipped with EMC protection.

Main Tecnical Parameters
Digital Load Cell Port: RS485. Maximum transmission distance ≤ 75 meters;
Transmission Speed: E protocol 19200bps; C protocol 9600bps;
Excitation Power of Digital Load Cell: DC12V/≈750mA;
Numbers of Digital Loads Connected: 1~16 pcs;
Communication Protocol of Digital Load Cell: E and C KELI protocols;
Display: 7-bit LED; 7 state incators;
Clock: Display year/month/date, hour/minute/second;
Scoreboard Port: 20mA costant current loop serial output. Baud rate 600. Transmission distance ≤ 100 meters;
Serial Communication Port: Standard RS232. Baud rate 1200~9600 optional;
External Printing Port: Standard parallel printing port. ESPON LQ-300K/300K+ II, ESPON LQ680/730/1600K, Matsushita KX-P1121/1131, Dascom DS300/2600 line printer are recommended;
Data Storage: 500 sets of vehicle number and tare weight. 1000 sets of weighing records;
Indicator Power Supply: AC 110~220V, 50Hz. Auxiliary supply DC12V/7Ah maintenance-free rechargeable battery (optional recharger)
Dimension: 320x130x230mm
Weight: Around 3.6kg

D2002E-D



<< D2002E-D

产品简介：

D2002E-D是一款数字式电子称重仪表，适用于1~12个C型数字传感器的静态汽车衡系统。

特点及基本功能：
VFD荧光数码管高亮度显示；
不锈钢机壳，薄膜按键；
自动调角差功能和手动调角功能；
数字传感器内码查看功能；
两段分度值，两段量程可选；
非线性修正功能；
称重记录存储/检查/删除/断电保护；
可贮存256组车号皮重，可贮存256组称重记录；

标定与参数设置分开操作；
配置大屏幕接口；
配置串行通讯接口；
配置标准并行打印接口；
数字传感器与仪表通讯光耦隔离；
全面配置EMC电磁兼容防护措施；

主要技术参数：
数字传感器接口：RS485方式，传输速率：9600 bps，最大传输距离≤75米；

数字传感器供电电源：DC12V/1A；
数字传感器连接数量：1~12个；
数字传感器通讯通讯协议：柯力C协议；
显示：6位VFD，6个状态指示符；
时钟：自动闰年、闰月，可显示年/月/日、时/分/秒；
大屏幕显示接口：20mA电流环串行输出，波特率600，传输距离≤100米；

串行通讯接口：配置标准RS232，波特率600~19200可选；
外接打印机接口：配置标准并行打印接口，推荐ESPON LQ-300K（+）、KX-P1121、KX-P1131；

数据贮存：可贮存256组车号皮重，可贮存256组称重记录；

仪表电源：交流220V，50Hz。

Introduction

D2002E-D is a digital electric weighing indicator suitable for static weighbridge system equipped with 1~12 pieces of C-type digital load cells.

Characteristics And Basic Functions:
VFD high brightness display;
Stainless steel housing and film keys;
Automatic and manual adjustment of corner difference;
Verification of internal codes of digital load cells;
2 ranges divisional value and 2 ranges of capacity optional;
Correction of non-linearity;
Storage, checking, deletion and power-down protection of weighing records;
Storage of 256 sets of vehicle numbers and tare weight. Storage of 256 sets of weighing records;
Calibration and parameter setting are operated seperately;
With scoreboard port;
With serial communication port;
With standard parallel printing port;
OPTO isolation of the communication between digital load cell and indicator;
Equipped with EMC protection

Main Technical Parameters:
Digital load cell port: RS485. Transmission speed 9600bps. Maximum transmission distance ≤ 75 meters;
Excitation Power of Digital Load Cell: DC12V/1A;
Numbers of Digital Loads Connected: 1~12 pcs;
Communication Protocol of Digital Load Cell: C-type protocol of KELI;
Display: 6-bit VFD. 6 state indicators;
Clock: Display year/month/date, hour/minute/second;
Scoreboard Port: 20mA current loop serial output. Baud rate 600. Transmission distance ≤ 100 meters;
Serial Communication Port: Standard RS232. Baud rate 600~19200 optional;
External Printing Port: Standard parallel printing port. ESPON LQ-300K/300K+ II, KX-P1121, KX-P1131 printers are recommended;
Data Storage: Storage of 256 sets of vehicle numbers and tare weight. Storage of 256 sets of weighing records;
Indicator Power Supply: AC 220V, 50Hz.

数字仪表 Digital Indicator

D12系列



<< D12

产品简介：

D12系列数字式电子称重仪表，新颖的外观设计，配置高性能宽电压开关电源，交直流两用，适用于1～16个C型或E型数字传感器的静态汽车衡系统。

D12系列均采用双覆膜外壳，镀膜显示保护板；（专利产品）

D12P内置热敏微型打印机；D12P1内置针式微型打印机；

- 特点及基本功能：
- 具有自动组网方式；
 - 偏载地址识别功能；
 - 仪表与传感器通讯支持加密功能；
 - 支持Modbus-RTU协议；
 - 自动调角差功能和手动调角功能；
 - 具有恢复出厂设置功能；
 - 具有超载记录存储及打印功能；
 - 数字传感器内码查看功能；
 - 数字传感器状态检测功能；
 - 数字传感器净内码监测与查看功能；
 - PC串口自检功能；
 - 两段分度值，两段量程可选；
 - 非线性修正功能；
 - 称重记录存储/检查/删除/断电保护；
 - 可贮存1500组车号皮重，可贮存2000组称重记录；
 - 标定与参数设置分开操作；
 - 配置大屏幕接口；
 - 配置串行通讯接口；
 - 配置标准并行打印接口，可自定义打印格式；
 - 蓄电池电压值显示功能；
 - 恒流源智能充电保护功能；
 - 全面配置EMC电磁兼容防护措施；

- 主要技术参数：
- 数字传感器接口：RS485方式，最大传输距离≤75米；
 - 传输速率：E协议19200 bps，C协议9600bps；
 - 数字传感器供电电源：DC 12V≈750mA；
 - 数字传感器连接数量：1～16个；
 - 数字传感器通讯通讯协议：柯力E协议或柯力C协议；
 - 显示：7位LED数码管，7个状态指示符；
 - （标准产品0.8英寸，可定制1.2英寸LED大数码管品种）
 - 时钟：自动闰年、闰月，可显示年/月/日、时/分/秒；
 - 大屏幕显示接口：20mA电流环恒流源串行输出，波特率600，传输距离≤100米；
 - 串行通讯接口：配置标准RS232，波特率600～19200可选；
 - 外接打印机接口：配置标准并行打印接口，推荐ESPON LQ/300K + II、ESPON LQ680/730/1600K，松下KX-P1121/1131，得实DS300/2600宽行打印机；
 - 数据贮存：可贮存1500组车号皮重，201组货号和中英文货物名，100组客户号及中英文客户名，100组数字或中英文备注信息，可贮存2000组称重记录；
 - 仪表电源：交流110～220V，50Hz；
 - 辅助电源：DC 12V/7Ah免维护蓄电池（可随机带充电）；
 - 外型：303×185×205 mm；

数字仪表 Digital Indicator

D12-C



<< D12-C

产品简介：

D12-C数字式电子称重仪表，适用于1～16个C型或E型数字传感器的静态汽车衡称重管理系统。

- 特点及基本功能：
- 具有2种自动组网方式；
 - 仪表与传感器通讯支持加密功能；
 - 支持Modbus-RTU协议；
 - 自动调角差功能和手动调角功能；
 - 具有恢复出厂设置功能；
 - 数字传感器内码查看功能；
 - 非线性修正功能；
 - 配置大屏幕接口；
 - 配置串行通讯接口；
 - 全面配置EMC电磁兼容防护措施；

- 主要技术参数：
- 数字传感器接口：Rs485方式，最大传输距离≤75米；
 - 传输速率：E协议19200 bps，C协议9600bps；
 - 数字传感器供电电源：DC12V/≈750mA；
 - 数字传感器连接数量：1～16个；
 - 数字传感器通讯通讯协议：柯力E协议或柯力C协议；
 - 显示：7位LED数码管，7个状态指示符；
 - 大屏幕显示接口：20mA电流环恒流源/RS232串行输出，波特率600，传输距离<100米；
 - 串行通讯接口：配置标准RS232，波特率2400～57600可选；
 - 仪表电源：交流110～220V，50Hz；
 - 外型：300×200×175 mm；
 - 自重：约2公斤；

Introduction

D12 - C digital electronic weighing indicator, suitable for the static truck scale weighing management system with 1～16 C or E type digital load cells.

- Characteristics and basic functions:
- with 2 kinds of automatic network mode;
 - Communication of indicator and load cells supports encryption functions;
 - Support Modbus - RTU protocol;
 - adjust corner automatically and manually;
 - With recovery factory Settings function;
 - Digital load cells codes checking function;
 - Nonlinear correction function;
 - Configuration interface for scoreboard;
 - Configuration serial communication interface;
 - Comprehensive configuration EMC protective measures;

- Main technical parameters:
- Digital load cells interface: RS485 , maximum transmission distance: more than 100 meters
 - Transfer rate: 9600bps for E type , 19200bps for C type;
 - Digital load cells power supply: DC12V/≈750mA;
 - Digital load cells connected quantity: 1～16;
 - Digital load cell communication protocols: KeLi E type or KeLi C type;
 - Display: seven LED digital tube, seven status indicator;
 - scoreboard display interface: 20mA current loop constant current source/RS232 serial output, baud rate 600, the transmission distance < 75 meters;
 - Serial communication interface: standard RS232, baud rate 24 to 57600 optional;
 - Indicator power : AC 110～220V, 50Hz;
 - dimensions: 300 x 200 x 175 mm;
 - Weight: about 2 kg;

数字仪表 Digital Indicator

D2008系列



<< D2008FA



<< D2008FP



<< D2008FP1



<< D2008-A

数字仪表 Digital Indicator

D2008-A

产品简介：

D2008系列数字式电子称重仪表，适用于1～16个C型或E型数字传感器的静态汽车衡系统。

D2008F系列均采用不锈钢外壳：

D2008-FA仪表为橡胶按键罩；

D2008-FP仪表为橡胶按键罩，内置热敏微型打印机；

D2008-FP1仪表为橡胶按键罩，内置针式微型打印机；

D2008-FB仪表为不锈钢按键；

D2008-FBP仪表为不锈钢按键，内置热敏微型打印机；

D2008-FBP1仪表为不锈钢按键，内置针式微型打印机；

特点及基本功能：

具有2种自动组网方式

仪表与传感器通讯支持加密功能；

支持Modbus-RTU协议；

具有文本信息可输入、可打印功能；

自动调角差功能和手动调角功能；

具有恢复出厂设置功能；

标率备份与还原功能；

具有超载记录存储及打印功能；

数字传感器内码查看功能；

数字传感器状态检测功能；

两段分度值，两段量程可选；

非线性修正功能；

称重记录存储/检查/删除/断电保护；

可贮存1500组车号皮重，可贮存2400组称重记录；

标定与参数设置分开操作；

配置大屏幕接口；

配置串行通讯接口；

配置标准并行打印接口，可自定义打印格式；

全面配置EMC电磁兼容防护措施；

主要技术参数：

数字传感器接口：RS485方式，最大传输距离≤75米

传输速率：E协议19200 bps，C协议9600bps；

数字传感器供电电源：DC12V/≈750mA

数字传感器连接数量：1～16个

数字传感器通讯协议：柯力E协议或柯力C协议

显示：7位LED数码管，7个状态指示符；

时钟：自动闰年、闰月，可显示年/月/日、时/分/秒

大屏幕显示接口：20mA电流环恒流源串行输出，波特率600，传输距离≤100米；

串行通讯接口：配置标准RS232，RS485，波特率600～19200可选

外接打印机接口：配置标准并行打印接口，推荐ESPON LQ-300K/300K + II、ESPON LQ680/730/1600K，松下KX-P1121/1131，得实DS300/2600宽行打印机；

数据贮存：可贮存1500组车号皮重，201组货号和中英文货物名，100组客户号及中英文客户名，100组数字或中英文备注信息，可贮存2400组称重记录。

交流110～220V，50Hz；

DC 12V/7Ah免维护蓄电池（可随机带充电）

外型：339×110×230 mm

自重：约3.7公斤

Introduction

D2008 Series Digital Weighing Indicator is suitable for static weighing truck scale system with 1-16pcs C type or E type digital load cells

D2008F series products adopts stainless steel housing;

D2008-FA is with rubber keys cover;

D2008-FP is with rubber keys cover, inner thermal micro printer;

D2008-FP1 is with rubber keys cover, inner pin type micro printer;

D2008-FB is with stainless steel keys;

D2008-FBP is with stainless steel keys, inner thermal micro printer;

D2008-FBP1 is with stainless steel keys, inner pin type micro printer;

Characteristics and Descriptions:

It has two kinds of auto networking methods

It's communication between load cells could be encrypted;

Support Modbus-RTU protocol;

Textual messages could be inputted, could be printed out;

Automatic and manual corner-difference adjustment;

Factory default setting reset function;

Calibration rate back up and recovery function;

It has over-load record save and print function;

Digital load cell inner code checking function;

Digital load cells' inspection function;

Two sect division, two sect capacity optional;

Non-linearity adjustment function;

Weighing record save/inspect/delete/power off protection;

It can save 1500 groups vehicle no. tare, 2400 groups weighing records;

Calibration and parameter setting separate operate;

With score board interface;

With serial communication interface;

With standard parallel print interface, user-defined printing format;

EMC Protection measurement'

Technical Parameters:

Load cell interface: RS485 Mode, Maximum Transmission distances≤75 meter

Transmission speed: E protocol 19200 bps, C protocol 9600bps;

Load cell power supply: DC12V/≈750mA

Load cell numbers: 1～16pcs

Load cell communication protocol: Keli E protocol or Keli C protocol

Display: 7 bits LED, 7 bits status indication;

Clock: Auto leap year, leap month, can display year/month /date, hour/minute/second

Screen display interface: 20mA current loop series port output, baud rate 600, transmission distances≤100m;

Serial communication interface: With standard RS232, RS485, Baud rate 600～19200 Optional

Outer indicator interface: With standard parallel printing interface, ESPON LQ-300K/300K + II .ESPON LQ680/730/1600K, Panasonic KX-P1121/1131, DS300/2600 wide-line printers etc;

Data storage: Tare weights of vehicle ID: 1500 groups, Cargo name: 201 Groups, Customer Name: 100 groups, Remarks: 100 groups,

Weighing record: 2400 groups

Power supply: AC 110～220V, 50Hz;

Assistant power supply: DC 12V/7Ah Maintenance-free battery (can charge by Indicator)

Size: 339×110×230 mm

Net Weight: About 3.7kg

产品简介：

D2008-A数字式电子称重仪表，带以太网接口，带USB接口，适用于1～16个C型或E型数字传感器的静态汽车衡系统。

特点及基本功能：

配置网络接口（TCP/IP）；实时传送重量值，按命令传送相应参数；

配置USB接口（主动型）；称重记录、超载记录、仪表参数可接口传输；

具有2种自动组网方式；

仪表与传感器通讯支持加密功能；

支持Modbus-RTU协议；

自动调角差功能和手动调角功能；

具有恢复出厂设置功能；

具有超载记录存储及打印功能；

数字传感器内码查看功能；

非线性修正功能；

称重记录存储/检查/删除/断电保护；

可贮存496组车号皮重，可贮存1995组称重记录，可贮存20组超载记录；

配置大屏幕接口；

配置串行通讯接口；

配置标准并行打印接口；

全面配置EMC电磁兼容防护措施；

主要技术参数：

数字传感器接口：RS485方式，最大传输距离≤100米；

传输速率：E协议19200 bps，C协议9600bps；

数字传感器供电电源：DC12V/≈750mA；

数字传感器连接数量：1～16个；

数字传感器通讯协议：柯力E协议或柯力C协议；

显示：7位LED数码管，7个状态指示符；

时钟：自动闰年、闰月，可显示年/月/日、时/分/秒；

网络接口（TCP/IP）：实时传送仪表显示重量值，按命令传送各传感器内码、仪表相应参数；

USB接口：

大屏幕显示接口：

串行通讯接口：

外接打印机接口：

数据贮存：

仪表电源：

外型：

自重：

Introduction

D2008-A Digital Weighing Indicator is with Ethernet and USB interface, suitable for static weighing truck scale system with 1-16pcs C type or E type digital load cells

Characteristics and Descriptions:

With Ethernet Interface (TCP/IP) ; Real-time weight value transmission, parameter transmission on orders;

With USB Interface (Host) ; Weighing record, overload record, indicator parameter can be transmitted by port;

It has two kinds of auto networking methods

It's communication between load cells could be encrypted;

Support Modbus-RTU protocol;

Automatic and manual corner-difference adjustment;

Factory default setting reset function;

It has over-load record save and print function;

Digital load cell inner code checking function;

Non-linearity adjustment function;

Weighing record save/inspect/delete/power off protection;

It can save 496 groups vehicle no. tare, 1995 groups weighing records, 20 groups overload records;

With score board interface;

With serial communication interface;

With standard parallel print interface;

EMC Protection measurement'

Technical Parameters:

Load cell interface: RS485 Mode, Maximum Transmission distances≤75 meter

Transmission speed: E protocol 19200 bps, C protocol 9600bps;

Load cell power supply: DC12V/≈750mA

Load cell numbers: 1～16pcs

Load cell communication protocol: Keli E protocol or Keli C protocol

Display: 7 bits LED, 7 bits status indication;

Clock: Auto leap year, leap month, can display year/month /date, hour/minute/second

Internet Interface (TCP/IP) : Real-time weight value transmission, load cells ISN, indicator parameters transmission on orders;

USB Interface: Save the weight records, vehicle tare records, overload records, all indicator parameters in the USB device;

Screen display interface: 20mA current loop/RS232 series port output, baud rate 600, transmission distance < 100m;

Serial communication interface: With standard RS232, RS485, Baud rate 2400～57600 Optional;

Outer indicator interface: With standard parallel printing interface, ESPON LQ-300K/300K + II .ESPON LQ680/730/1600K, Panasonic KX-P1121/1131, DS300/2600 wide-line printers;

Data storage: It can save 496 groups vehicle no. tare, 1995 groups weighing records, 20 groups overload records

Power supply: AC 110～220V, 50Hz;

Size: 310×140×260 mm

Net Weight: About 3.6kg

D2009系列



<< D2009A

产品简介：

D2009系列数字式电子称重仪表，适用于1～16个C型或E型数字传感器的静态汽车衡系统。
D2009F系列均采用不锈钢外壳：
D2009FA仪表为橡胶按键罩；
D2009FP仪表为橡胶按键罩，内置热敏微型打印机；
D2009FP1仪表为橡胶按键罩，内置针式微型打印机；

特点及基本功能：
具有2种自动组网方式
仪表与传感器通讯支持加密功能；
支持Modbus-RTU协议；
具有文本信息可输入、可打印功能；
自动调角差功能和手动调角功能；
具有恢复出厂设置功能；
具有超载记录存储及打印功能；
数字传感器内码查看功能；
数字传感器状态检测功能；
两段分度值，两段量程可选；
非线性修正功能；
称重记录存储/检查/删除/断电保护；
可贮存1500组车号皮重，可贮存2400组称重记录；
标定与参数设置分开操作；
配置大屏幕接口；
配置串行通讯接口；
配置标准并行打印接口，可自定义打印格式；
全面配置EMC电磁兼容防护措施；

主要技术参数：
数字传感器接口：RS485方式，最大传输距离≤75米；
传输速率：E协议19200 bps，C协议9600bps；
数字传感器供电电源：DC12V/≈750mA；
数字传感器连接数量：1～16个；
数字传感器通讯通讯协议：柯力E协议或柯力C协议；
显示：7位LED数码管，7个状态指示符；
时钟：自动闰年、闰月，可显示年/月/日、时/分/秒；
大屏幕显示接口：20mA电流环恒流源串行输出，波特率600，传输距离≤100米；
串行通讯接口：配置标准RS232，波特率600～19200可选；
外接打印机接口：配置标准并行打印接口，推荐ESPON LQ-300K /300K + II、ESPON LQ680/730 /1600K，松下KX-P1121/1131，得实DS300 /2600宽行打印机；
数据贮存：可贮存1500组车号皮重，201组货号和中英文货物名，100组客户号及中英文客户名，100组数字或中英文备注信息，可贮存2400组称重记录；
仪表电源：交流110～220V，50Hz；
辅助电源：DC 12V/7Ah免维护蓄电池（可随机带充电）；
外型：339×110×230 mm；
自重：约3.7公斤；

Introduction

D2009 Series Digital Weighing Indicator is suitable for static weighing truck scale system with 1-16pcs C type or E type digital load cells
D2009F serials products adopts stainless steel housing;
D2009-FA is with rubber keys cover;
D2009-FP is with rubber keys cover, inner thermal micro printer;
D2009-FP1 is with rubber keys cover, inner pin type micro printer;

Characteristics and Descriptions:
It has two kinds of auto networking methods
It's communication between load cells could be encrypted;
Support Modbus-RTU protocol;
Textual messages could be inputted, could be printed out;
Automatic and manual corner-difference adjustment;
Factory default setting reset function;
It has over-load record save and print function;
Digital load cell inner code checking function;
Digital load cells' inspection function;
Two sect division, two sect capacity optional;
Non-linearity adjustment function;
Weighing record save/inspect/delete/power off protection;
It can save 1500 groups vehicle no. tare, 2400 groups weighing records;
Calibration and parameter setting separate operate;
With score board interface;
With serial communication interface;
With standard parallel print interface, user-defined printing format;
EMC Protection measurement'

Technical Parameters:
Load cell interface: RS485 Mode, Maximum Transmission distances75 Meter
Transmission speed: E protocol 19200 bps, C protocol 9600bps;
Load cell power supply: DC12V/≈750mA
Load cell numbers: 1~16pcs
Load cell communication protocol: Keli E protocol or Keli C protocol
Display: 7 bits LED, 7 bits status indication;
Clock: Auto leap year, leap month, can display year/month /date, hour/minute/second
Screen display interface: 20mA current loop series port output, baud rate 600, transmission distances100m;
Serial communication interface: With standard RS232, RS485, Baud rate 600~19200 Optional
Outer indicator interface: With standard parallel printing interface, ESPON LQ-300K/300K + II、ESPON LQ680/730/1600K, Panasonic KX-P1121/1131, DS300/2600 wide-line printers etc;
Data storage: Tare weights of vehicle ID: 1500 groups, Cargo name: 201 groups, Customer Name: 100 groups, Remarks: 100 groups, Weighing record: 2400 groups
Power supply: AC 110~220V, 50Hz;
Assistant power supply: DC 12V/7Ah Maintenance-free battery (can charge by indicator)
Size: 339×110×230 mm
Net Weight: About 3.7kg

XK3118T1



<< XK3118T1

产品简介：

XK3118T1电子称重仪表，采用高精度Σ-ΔAD转换芯片，高强抗干扰单片微处理器，配置不锈钢支架（XK3118T1B配置塑料支架），新颖的外观结构，配置宽电压开关电源，交直流两用，适用于1~6个模拟传感器的平台秤、台秤等静态称重系统。

功能特点：
高精度AD转换，可读性达1/30000；
20倍的内码显示，替代感量砝码观察和分析误差；
开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；
随机充电，有欠压指示及保护装置；
采用电池浮充电路，有效延长蓄电池寿命；
具有节能模式和自动关机功能；
畜牧秤功能、累计功能, 选配计数功能；
上下限检重指示功能；
RS232通讯接口，多种通讯格式；
全面配置电磁兼容防护措施；
多种信息提示；

技术参数：
准确度等级：Ⅲ级，n=3000
A/D转换方式：Δ-Σ转换方式，20bit
输入灵敏度：≥1.5uV/e
传感器供桥电压：DC 5V,可接1～6个350Ω电阻应变片传感器
传感器连接方式：采用6线式（长线自动补偿）
分度值：1/2/5/10/20/50 可选
显示方式：6位LED数码管，10个状态指示符；
专用适配器使用电源：AC 110～220V，50Hz～60Hz
内置6V/4AH免维护铅酸蓄电池
使用温度为：0～+40℃，湿度≤85%（RH）
存储温度为：-20～+60℃ 湿度≤95%（RH）

Introduction

XK3118T1 weighing indicator, adopts high precision Σ-ΔAD conversion chip, high anti-jamming single-chip microprocessor, stainless steel frame base (XK3118T1B with plastic frame base), novel outline structure, wide range of voltage switch power supply, AC and DC power supply, applies for platform scale, floor scale and other static weighing systems with 1-6 pieces of analog load cell.

Function:
High precision AD conversion, readability 1/30000;
20 times of ISN display, replace weights to observe and analyze error;
Power on, auto zero-set range, manual zero-set range can be set separately, zero tracing range can be set;
Random charging by indicator, low power indication and protection device;
Adopt float charging circuit, can prolong battery lifetime;
Power-saving mode and auto power-off function;
Animal scale function, accumulation function, counting function is optional;
High and low limit weight indication;
RS232 communication interface, multi communication formats;
Apply with EMC preventive measurement;
Multi-information reminder;

Technical parameters:
Accuracy class: Ⅲ, n=3000
A/D conversion mode: Δ-Σ, 20bit
Input sensitivity: ≥1.5uV/e
Load cell excitation: DC 5V, connect 1～6 pieces of 350Ω strain gauge load cell
Load cell connection mode:6 wire (long wire auto compensation)
Division: 1/2/5/10/20/50 optional
Display: 6bits LED, 10 indication signs;
Specialized adapter power supply: AC 110～220V, 50Hz～60Hz
Built-in 6V/4AH maintenance free Lead-Acid battery
Operating temperature: 0～+40℃, humidity ≤85%（RH）
Storage temperature: -20～+60℃ humidity ≤95%（RH）

台秤仪表 Platform scale indicator

XK3118T2 (客户定制高端品种)



<< XK3118T2

产品简介:

XK3118T2电子称重仪表，采用高强抗干扰单片微处理器，配合高精度 $\Delta-\Sigma$ 转换技术，交直流两用，LCD单屏3排显示，带计价功能，适用于使用1~6个传感器的平台秤、台秤等静态称重系统。

功能特点:

- 高精度AD转换，可读性达1/30000；
- 大尺寸高对比度LCD显示，背光可设置；
- 可以存储50组单价；密码保护的单元输入功能；
- 具有内部日历时钟（断电保留）；
- 开机自动置零范围、手动置零范围可独立设置，零位跟踪速率可设置；
- 具有自检功能和多种信息提示；
- 找零钱显示功能；
- 随机充电，有欠压指示及保护装置；
- 采用电池浮充电路，有效延长蓄电池寿命；
- 配置RS232通讯以及大屏幕输出接口；

技术参数:

- A/D转换方式: $\Delta-\Sigma$ 转换方式，24bit
- 输入灵敏度: $\geq 1.5\mu\text{V/e}$
- 传感器供桥电压: DC 5V,可接1~6个350 Ω 电阻应变片传感器
- 传感器连接方式: 采用6线式（长线自动补偿，补偿距离 ≤ 30 米）
- 显示方式: 3排6位0.8英寸LCD数码管显示，11个指示符；
- 键盘: 20个键，其中9个功能键；
- 专用适配器使用电源: AC 110~220V, 50Hz~60Hz
- 内置6V/4AH免维护铅酸蓄电池
- 使用温度为: 0~+40 $^{\circ}\text{C}$ ，湿度 $\leq 85\%$ （RH）
- 存储温度为: -20~+60 $^{\circ}\text{C}$ 湿度 $\leq 95\%$ （RH）

Introduction

XK3118T2 weighing indicator, adopts high anti-jamming single-chip microprocessor , high precision $\Delta-\Sigma$ conversion technology, AC and DC power supply, LCD single screen with 3 rows, with pricing function, applies for platform scale, floor scale and other static weighing systems with 1-6 pieces of analog load cell.

Function:

- High precision AD conversion, readability 1/30000;
- Large-size high-contrast LCD display, backlight can be set;
- Can save 50 groups of price; password protection single input function;
- Internal calendar clock (power off reservation);
- Power on, auto zero-set range, manual zero-set range can be set separately, zero tracing range can be set;
- Self-check function and multi-information reminder;
- Display of small charges function;
- Random charging by indicator, low power indication and protection device;
- Adopt float charging circuit, can prolong battery lifetime;
- RS232 communication and scoreboard output interface;

Technical parameters:

- A/D conversion mode: $\Delta-\Sigma$, 24bit
- Input sensitivity: $\geq 1.5\mu\text{V/e}$
- Load cell excitation: DC 5V, connect 1~6 pieces of 350 Ω strain gauge load cell
- Load cell connection mode: 6 wire (long wire auto compensation, Compensation distances ≤ 30 meter)
- Display: 3 rows of 6 bits, 0.8 inch LCD, 11 indication signs;
- Keyboard: 20 keys, including 9 function keys;
- Specialized adapter power supply: AC 110~220V, 50Hz~60Hz
- Built-in 6V/4AH maintenance free Lead-Acid battery
- Operating temperature: 0~+40 $^{\circ}\text{C}$, humidity $\leq 85\%$ (RH)
- Storage temperature: -20~+60 $^{\circ}\text{C}$ humidity $\leq 95\%$ (RH)

台秤仪表 Platform scale indicator

XK3118T4系列 (客户定制高端品种)



<< XK3118T4



<< XK3118T4E



<< XK3118T4F

产品简介:

XK3118T4/XK3118T4B电子称重仪表，采用高强抗干扰单片微处理器，配合高精度 $\Delta-\Sigma$ 转换技术，可应用在平台秤、台秤等称重场合。

XK3118T4C 不锈钢按键

XK3118T4E 外置蓄电池 XK3118T4F 内置蓄电池

功能特点:

- 全不锈钢机壳，不锈钢支架，可选用两节干电池供电及多种供电方式；
- 可选配高防护等级接口配件，防护等级达IP65；
- 高能量镍氢电池，符合欧盟环保要求；
- 可增加交流电源适配器，交直流两用（XK3118T4B定制服务）

主要功能:

- 高精度AD转换，可读性达1/50000；
- 20倍的内码显示，替代感量砝码观察和分析误差；
- 开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；
- 具有节能模式和自动关机功能；
- 全面配置电磁兼容防护措施；
- 畜牧秤功能、累计功能；称重计数功能；
- 选配RS232通讯接口，多种通讯格式；多种信息提示；

技术参数:

- A/D转换方式: $\Delta-\Sigma$ 转换方式，24bit
- 输入灵敏度: $\geq 1.5\mu\text{V/e}$
- 传感器供桥电压: DC 3.3V, 建议接1个1000 Ω 电阻应变片传感器；（最多可接6个350 Ω 电阻应变片传感器）
- 传感器连接方式: 标准产品采用4线式（可定制6线制长线自动补偿，补偿距离 ≤ 30 米）
- 分度值: 1/2/5/10/20/50 可选
- 显示方式: 6位0.8英寸高对比度LCD数码管，多图形/字符提示符
- 使用电源: 2节AA电池，T4F1~1使用铅酸蓄电池；AC 110~220V, 50Hz~60Hz（定制服务）
- 使用温度为: 0~+40 $^{\circ}\text{C}$ ，湿度 $\leq 85\%$ （RH）
- 存储温度为: -20~+60 $^{\circ}\text{C}$ 湿度 $\leq 95\%$ （RH）

Introduction

XK3118T4/XK3118T4B weighing indicator, adopts high anti-jamming single-chip microprocessor , high precision $\Delta-\Sigma$ conversion technology, applies for platform scale, floor scale and other weighing applications.

XK3118T4C: stainless steel keys

XK3118T4E: with external battery

XK3118T4F: with built-in battery

Function:

- Stainless steel housing, stainless steel frame base, 2 pieces of dry battery & other power supply;
- High protection class interface is optional; protection class can be IP65;
- High energy NI-MH battery, can meet ROHS requirement;
- Can add AC power adapter, AC and DC power supply (XK3118T4B is customized);
- High precision AD conversion, readability 1/50000;
- 20 times of ISN display, replace weights to observe and analyze error;
- Power on, auto zero-set range, manual zero-set range can be set separately, zero tracing range can be set;
- Power-saving mode and auto power-off function;
- Apply with EMC preventive measurement;
- Animal scale function, accumulation function, counting function;
- RS232 communication interface is optional, multi communication formats;
- Multi-information reminder;

Technical parameters:

- A/D conversion mode: $\Delta-\Sigma$, 24bit
- Input sensitivity: $\geq 1.5\mu\text{V/e}$
- Load cell excitation: DC 3.3V, suggest connecting 1 piece of 1000 Ω strain gauge load cell (maximum connect 6 pieces of 350 Ω strain gauge load cell)
- Load cell connection mode: 4 wire (6 wire can be customized, long wire auto Compensation, compensation distance ≤ 30 meter)
- Division: 1/2/5/10/20/50 optional
- Display: 6 bits of 0.8 inch high-contrast LCD, multi-figure/character indication signs;
- Power supply: 2 pieces of AA dry battery;lead-acid storage battery For T4F1-1 AC 110~220V, 50Hz~60Hz (customized)
- Operating temperature: 0~+40 $^{\circ}\text{C}$, humidity $\leq 85\%$ (RH)
- Storage temperature: -20~+60 $^{\circ}\text{C}$ humidity $\leq 95\%$ (RH)

台秤仪表 Platform scale indicator

XK3118T5 （客户定制高端品种）



<< XK3118T5

产品简介：

XK3118T5电子称重仪表，采用高强抗干扰单片微处理器，配合高精度 $\Delta-\Sigma$ 转换技术，可应用在平台秤、台秤等称重场合。

功能特点：

全不锈钢机壳，不锈钢支架，四节干电池供电；
高能量镍氢电池，符合欧盟环保要求；
可选配交流电源适配器，交直流两用（定制服务）；

主要功能：

高精度AD转换，可读性达1/50000；
20倍的内码显示，替代感量砝码观察和分析误差；
开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；
具有节能模式和自动关机功能；
全面配置电磁兼容防护措施；
畜牧秤功能、累计功能；称重计数功能；
选配RS232通讯接口，定制通讯格式；

技术参数：

A/D转换方式： $\Delta-\Sigma$ 转换方式，24bit
输入灵敏度： $\geq 1.5\mu\text{V/e}$
传感器供桥电压：DC 3.3V，建议接1个1000 Ω 电阻应变片传感器；（最多可接6个350 Ω 电阻应变片传感器）
传感器连接方式：标准产品采用4线式
（可定制6线制长线自动补偿，补偿距离 $\leq 30\text{m}$ ）
分度值：1/2/5/10/20/50 可选
显示方式：4节AA电池；AC 110~220V，50Hz~60Hz（定制服务）
使用温度为：0~+40 $^{\circ}\text{C}$ ，湿度 $\leq 85\%$ （RH）
存储温度为：-20~+60 $^{\circ}\text{C}$ 湿度 $\leq 95\%$ （RH）

Introduction

XK3118T5 electronic weighing indicator adopts high anti-jamming single chip MPU and high precision $\Delta-\Sigma$ converting technique, It can be used in platform scale、floor scale etc. weighing application.

Features:

Stainless steel housing and bracket, powered with 4pcs dry batteries;
High energy NIMH battery meets ROHS requirements;
With A/C power adaptor, A/C and D/C supplier are both available (customized service) ;

Main functions:

High accuracy AD conversion, readability is up to 1/50000;
20 times ISN display, replace weights to observe and analyze error;
Auto zero range and manual zero range can be set separately, zero tracking range can also be set;
With power saving mode and automatic power off function;
With EMC protection;
With animal scale、accumulation、weighing and counting function;
RS232 communication interface, customized communication format;

Technical parameter:

A/D type： $\Delta-\Sigma$ ，24bit
Input sensitivity： $\geq 1.5\mu\text{V/e}$
Load cell supply voltage：DC 3.3V， suggest to connect 1 pc 1000 Ω strain gauge load cell； max 6pcs 350 Ω strain gauge loadcells.
Load cell connection：Standard product use 4 wires (customized 6 wires long cable compensation， compensation distance $\leq 30\text{m}$)
Division：1/2/5/10/20/50 optional
Display：6 digits of LED， 7 pcs of stating indication;
Power supply：4 pcs of AA battery； AC 110 ~ 220V， 50Hz ~ 60Hz (customized service)
Operation temperature：0~+40 $^{\circ}\text{C}$ ， humidity $\leq 85\%$ （RH）
Storage temperature：-20~+60 $^{\circ}\text{C}$ ， humidity $\leq 95\%$ （RH）

台秤仪表 Platform scale indicator

XK3118T6-P（客户定制仪表）



<< XK3118T6-P

产品简介：

XK3118T6-P内置热敏微型打印机，采用高精度 $\Sigma-\Delta$ AD转换芯片，配置宽电压开关电源，可交直流两用，适用于1~4个模拟传感器的平台秤、台秤等静态称重系统。

功能特点：

高精度AD转换，可读性达1/30000；
20倍的内码显示，替代感量砝码观察和分析误差；
开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；
随机充电，有欠压指示及保护装置；
配置电磁兼容防护措施；
畜牧秤功能、累计功能；
多种信息提示；

技术参数：

※输入灵敏度： $\geq 1.5\mu\text{V/e}$ ；
※A/D转换方式：采用 $\Delta-\Sigma$ 技术，20bit；
※传感器供桥电压：DC 5V,可接1~4个350 Ω 电阻应变式传感器；
※传感器连接方式：采用4线式；
※分度值：1/2/5/10/20/50/100可选；
※显示：6位LCD液晶显示；
※时钟：可显示年/月/日、时/分/秒，自动闰年、闰月，不受断电影响；
※文字设置：可设置中英文方式打印；
※大屏幕接口：RS232串行输出，600bps；
※打印接口：内置热敏微打，使用57mm宽热敏打印纸，纸卷直径 $\leq 40\text{mm}$ ；
※交流电源：AC110~220V，50~60Hz；
（6V/4Ah免维护铅酸蓄电池可作为应急电源供电）
※使用环境：使用温度：0 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$ ；
使用湿度： $\leq 85\%$ （RH），无冷凝；
※存储环境：存储温度：-10 $^{\circ}\text{C}$ ~50 $^{\circ}\text{C}$ ；
存储湿度： $\leq 95\%$ （RH），无冷凝；
※仪表尺寸：240*173*187mm(长*宽*高)；
※仪表重量：约1.15 (kg)；

Introduction

XK3118T6-P (CUSTOMIZED INDICATOR)
XK3118T6-P with thermal-micro printer inside, adopts high-precision $\Sigma-\Delta$ AD conversion technique. It is suitable for platform scale, floor scale and other weighing applications which contains1-4 analog load cells. The indicator offers large-scale voltage power switch, with AC and DC both available .

Function:

High-precision AD conversion, readability 1/30000;
Display 20times inner code to replace weighing observing and analysis tolerance;
Auto-zero range and manual zero range can be set separately, zero tracking range can also be set ;
Random charging instructions, with under-voltage indication and protection device;
Supplied with EMC protection measures;
With function of animal weighing, counting;
With multi-message indications.

Technical parameters

※ Input Sensitivity: $\geq 1.5\mu\text{V/e}$
※ A/D Conversion: $\Delta-\Sigma$ technique,20bit
※ Supply bridge Voltage of load cell: DC 5V, can connect 1-4 pcs of 350 Ω strain gauge load cells;
※ Connection with load cell: use 4 wires
※ Division value: 1/2/5/10/20/50/100 optional
※ Display: 6 bits LCD display
※ Clock display: Display the year/month/day, hour/minute/second, automatic leap year, leap month. No need to reset after power off .
※ Character setting: Chinese/English is available for printing
※ Scoreboard interface: current loop serial output method,600bps
※ Printer interface: Inner thermal micro-printing,57mm width paper, diameter of the paper reels40mm
※ Indicator power supply:AC110~220V,50~60Hz (Selection on DC 6V/7Ah free maintenance lead-acid battery)
※ Operation environment: 0 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$ Operation Humidity: $\leq 85\%$ （RH）,No condensation
※ Storage environment: -10 $^{\circ}\text{C}$ ~ 50 $^{\circ}\text{C}$
Stock Humidity: $\leq 95\%$ （RH,No condensation
※ Size of the indicator: 240*173*187mm(length*width*height)
※ Weight of the indicator: about 1.15 (kg)

台秤仪表 Platform scale indicator

XK3118T9-C (客户定制品种)



<< XK3118T9-C

台秤仪表 Platform scale indicator

XK3118T10



<< XK3118T10

产品简介:

XK3118T9-C电子称重仪表，采用 $\Delta-\Sigma$ A/D转换技术，交直流两用，LCD液晶显示，适用于平台秤、台秤等静态称重系统。

XK3118T9-X支持自动畜牧秤功能。

- 功能特点:
- $\Delta-\Sigma$ AD转换；
 - 开机自动置零范围、手动置零范围可独立设置，零位跟踪速率可设置；
 - 具有自检功能和多种信息提示；
 - 随机充电，有欠压指示及保护装置；
 - 可以定制RS232通讯接口；

- 技术参数:
- A/D转换方式：采用 $\Delta-\Sigma$ 技术，20bit；
 - 输入灵敏度 $\geq 1.5\mu\text{V/e}$ ；
 - 传感器供桥电压：DC 5V；
 - 传感器连接方式：采用4线式；
 - 显示方式：6位LCD液晶显示；（带背光）
 - 专用适配器使用电源：AC110~220V 50~60Hz；
 - 内置免维护铅酸蓄电池：6V2.5Ah；
 - 使用温度为：0~+40℃，湿度 $\leq 85\%$ （RH）
 - 存储温度为：-10~+60℃ 湿度 $\leq 95\%$ （RH）

Introduction

XK3118T9-C electronic weighing indicator adopts $\Delta-\Sigma$ A/D conversion technology, AC and DC available, with LCD display. It is applying in platform scale, floor scale and other weighing system.

XK3118T9-X supports auto-animal scale.

- Function:
- A/D Conversion: $\Delta-\Sigma$ technique,20bit
 - Auto-zero range and manual zero range can be set separately, zero tracking range can also be set;
 - Self-testing function and various information indication .
 - Random charging instructions , with under-voltage indication and protection device;

RS232 communication interface can be customized .

- Technical parameters
- A/D Conversion: $\Delta-\Sigma$ technique,20bit
 - Input Sensitivity: $\geq 1.5\mu\text{V/e}$
 - Supply bridge voltage of load cell: DC 5V
 - Connection with load cell: use 4 wires
 - Display: 6 bits LCD display (with background light)
 - Indicator power supply: AC110~220V,50~60Hz
 - Inside with DC 6V/7Ah free maintenance lead-acid battery
 - Operation environment: 0℃~40℃ Operation Humidity: $\leq 85\%$ （RH）,No Condensation
 - Storage environment: -10℃~60℃ Stock Humidity: $\leq 95\%$ （RH）,No Condensation

产品简介:

XK3118T10电子称重仪表，采用高强抗干扰单片微处理器，配合高精度 $\Delta-\Sigma$ 转换技术，交直流两用，适用于使用1~6个传感器的平台秤、台秤等静态称重系统。

- 功能特点:
- 高精度AD转换，可读性达1/30000；
 - 20倍的内码显示，替代感量砝码观察和分析误差；
 - 开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；
 - 随机充电，有欠压指示及保护装置；
 - 配置电磁兼容防护措施；选配RS232通讯接口（XK3118T10B定制服务）；
 - 具有节能模式和自动关机功能；畜牧秤功能、累计功能、选配计数功能；
 - 多种信息提示

- 技术参数:
- A/D转换方式： $\Delta-\Sigma$ 转换方式，20bit；
 - 输入灵敏度： $\geq 1.5\mu\text{V/e}$
 - 传感器供桥电压：DC 5V,可接1~6个350 Ω 电阻应变片传感器
 - 传感器连接方式：采用4线式（选配长线自动补偿）
 - 分度值：1/2/5/10/20/50 可选；
 - 显示方式：6位LED数码管，7个状态指示符；
 - 专用适配器使用电源：AC 110~220V，50Hz~60Hz
 - 内置6V/4AH免维护铅酸蓄电池
 - 使用温度为：0~+40℃，湿度 $\leq 85\%$ （RH）
 - 存储温度为：-20~+60℃ 湿度 $\leq 95\%$ （RH）

Introduction

XK3118T10 weighing indicator, adopts high anti-jamming single-chip microprocessor , high precision $\Delta-\Sigma$ conversion technology, AC and DC power supply, applies for platform scale, floor scale and other static weighing systems with 1-6 pieces load cells.

- Function:
- High precision AD conversion, readability 1/30000;
 - 20 times of ISN display, replace weights to observe and analyze error;
 - Power on, auto zero-set range, manual zero-set range can be set separately, zero tracing range can be set;
 - Random charging by indicator, low power indication and protection device;
 - Apply with EMC preventive measurement;
 - RS232 communication interface is optional (XK3118T10B is customized);
 - Power-saving mode and auto power-off function;
 - Animal scale function, accumulation function, counting function is optional;
 - Multi-information reminder;

- Technical parameters:
- A/D conversion mode: $\Delta-\Sigma$, 20bit;
 - Input sensitivity: $\geq 1.5\mu\text{V/e}$;
 - Load cell excitation: DC 5V, connect 1~6 pieces of 350 Ω strain gauge load cell;
 - Load cell connection mode: 4 wire (long wire auto compensation is optional) ;
 - Division: 1/2/5/10/20/50 optional;
 - Display: 6 bits LED, 7 indication signs;
 - Specialized adapter power supply: AC 110~220V, 50Hz~60Hz
 - 内置6V/4AH免维护铅酸蓄电池
 - Operating temperature: 0~+40℃, humidity $\leq 85\%$ （RH）
 - Storage temperature: -20~+60℃ humidity $\leq 95\%$ （RH）

台秤仪表 Platform scale indicator

XK3118T12-C（客户定制品种）



<< XK3118T12-C

汽车衡仪表 Truck scale indicator

XK3118K8系列（客户定制高端品种）



<< XK3118K8AP



<< XK3118K8BP



<< XK3118K8BP1

产品简介：

XK3118T12-C采用 $\Sigma-\Delta$ AD转换芯片，交直流两用，3屏LCD液晶屏显示(带计价功能)，适用于模拟静态台秤、平台秤系统。

基本功能：
20倍的内码显示，替代感量砝码观察和分析误差；
开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；
欠压指示、电量不足自动关机功能；

技术参数：
输入灵敏度： $\geq 1.5\mu\text{V/e}$ ；
AD转换方式： $\Sigma-\Delta$ 转换方式，20bit；
传感器供桥电源：DC5V，可接1~4个350 Ω 电阻应变片模拟传感器；
传感器连接方式：采用4线式；
显示：三屏LCD液晶屏（字高18mm），白色背光，1个交流指示灯；
键盘：20个按键（5*4）；
仪表电源：主电源：110~220V AC，50/60Hz
辅助电源：DC6V /2.5AH免维护铅酸蓄电池，
仪表可对蓄电池随机充电；
使用温度及湿度：0℃~40℃； $\leq 85\%$ （RH）无冷凝
存储温度及湿度：-10℃~60℃； $\leq 95\%$ （RH）无冷凝

Introduction

XK3118T12-C adopts $\Delta-\Sigma$ A/D conversion technology, AC and DC available, with 3 LCD display(with pricing function).It is applying in platform scale, floor scale and other weighing system.

Function:
Display 20times inner code to replace weighing observing and analysis tolerance;
Auto-zero range and manual zero range can be set separately, zero tracking range can also be set ;
Under-voltage indication, auto-power off when it is low power supply.

Technical parameters:
Input Sensitivity: $\geq 1.5\mu\text{V/e}$
A/D Conversion: $\Delta-\Sigma$ technique,20bit
Supply bridge Voltage of load cell: DC 5V , can connect 1-4 pieces of 350 Ω strain gauge load cells;
Connection with load cell: use 4 wires
Display: 3 LCD display (letter height 18mm), white background light, 1 AC indicating light.
Keyboard: 20 keys (5*4)
Indicator power supply: AC110~220V, 50~60Hz, with DC 6V/7Ah free Maintenance lead-acid battery on optional , random charging.
Operation environment: 0℃~40℃ Operation Humidity: $\leq 85\%$ （RH）,No Condensation
Storage environment: -10℃~60℃ Stock Humidity: $\leq 95\%$ （RH）,No condensation

产品简介：

XK3118K8系列电子称重仪表，采用高精度 $\Sigma-\Delta$ AD转换芯片，交直流两用，接口带保护，新颖的外观结构，配置高性能宽电压开关电源，适用于1~12个模拟传感器的静态汽车衡系统。
XK3118K8（以下简称K8）全部采用不锈钢机壳，其中：
XK3118K8A 配置橡胶按键；K8AP 内置热敏微型打印机；K8AP1 内置针式微型打印机；
XK3118K8B 配置不锈钢按键；K8BP 内置热敏微型打印机；K8BP1 内置针式微型打印机；

特点及基本功能：
密码管理功能，定时锁定；
高精度AD转换，可读性达1/50000；
20倍的内码显示，方便观察和分析误差；
标率备份与还原功能；
换表免标定功能；
具有超载记录存储及打印功能；
3档分度值自动切换功能；
标定误差修正功能；
开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；
可贮存1024个车号和皮重、100个货号、1024组称重记录；
多种打印格式，支持快速填充式打印磅单；可以进行补充打印；
统计报表/分类报表打印；
配置RS232通讯接口，通讯方式以及通讯格式可选；
配置大屏幕接口，RS232/电流环出方式；
配置并行打印机接口，可连接9针、24针宽行打印机；
配置电磁兼容防护措施；

技术参数：
准确度等级： III 级，n = 3000；
AD转换方式： $\Sigma-\Delta$ 转换方式，24bit；
输入灵敏度： $\approx 1.5\mu\text{V/e}$ ；
传感器供桥电源：DC5V，可接1~12个350 Ω 电阻应变片传感器；
传感器连接方式：采用6线式（长线自动补偿，补偿距离 ≤ 50 米）；
显示方式：7位LED数码管，7个状态指示位；
实时时钟显示：自动闰年、闰月，可显示年/月/日、时/分/秒；
大屏幕接口：电流环串行输出方式，600bps,传输距离 ≤ 50 米；
串行通讯接口：RS232；波特率600~9600可选；
数据协议：连续/命令；
外接打印机接口：配置标准并行打印接口，
推荐ESPON LQ-300K/300K + II、ESPON LQ680/730/1600K，松下KX-P1121/1131，得实DS300/2600宽行打印机；
称重数据存储：最多可贮存称重记录1024条；
仪表电源：主电源：110~220V AC，50Hz；
辅助电源：DC6V / 10Ah免维护铅酸蓄电池；

Introduction

XK3118K8 series weighing indicator, adopts high precision $\Sigma-\Delta$ AD conversion chip, AC and DC power supply, interface with protection, novel outline structure, high performance switch power supply of wide voltage range, applies for static truck scale with 1-12 pieces of analog load cells. XK3118K8: stainless steel housing, and XK3118K8A: rubber keys; K8AP: built-in thermal micro printer; K8AP1: built-in dot micro printer; XK3118K8B : stainless steel keys; K8BP: built-in thermal micro printer; K8BP1: built-in dot micro printer;

Function:
Password management function, time lock function;
High precision AD conversion, readability 1/50000;
20 times of ISN display, convenient for observing and analyzing error;
Calibration rate backup and restore function;
Change clock without calibration function;
Overloading record saving and print function;
3 divisions auto-switch function;
Calibration tolerance modify function;
Power on, auto zero-set range, manual zero-set range can be set separately, zero tracing range can be set;
Can save 1024 vehicle number and tare, 100 cargo number, 1024 group weight record;
Multi print format, support quick filled print bill; can supplement print;
Statistics report / assort report print;
RS232 communication interface, communication mode and format can be selected;
Scoreboard interface, RS232 / current loop output mode;
Parallel printer interface, can connect 9 pin, 24 pin wide line printer;
Apply with EMC preventive measurement;

Technical parameters:
Accuracy class: III , n=3000 ;
A/D conversion mode: $\Sigma-\Delta$, 24bit;
Input sensitivity: $\approx 1.5\mu\text{V/e}$;
Load cell excitation: DC 5V, connect 1~12Pieces of 350 Ω strain gauge Load cell;
Load ell connection mode: 6 wire (long wire auto compensation, compensation distance ≤ 50 meter) ;
Display: 7 bits LED, 7 indication signs;
Real time display: Auto leap year, leap month, can display year/month/day, hour/minute/second;
Scoreboard interface: current loop serial output mode, 600bps, transmit distance ≤ 50 meter;
Serial communication interface: RS232, baud rate 600 9600 can be selected;
Data protocol: Continuous / Command;
External printer interface: Standard parallel print interface, suggest ESPON LQ-300K/300K + II、ESPON LQ680/730/1600K, Panasonic KX-P1121/1131, Deshi DS300/2600 wide line printers;
Data saving: maximum save weight records 1024pcs;
Power supply: Main power supply: 110~220V AC, 50Hz;
Auxiliary power supply: DC6V / 10Ah Maintenance-free Lead-Acid battery;

汽车衡仪表 Truck scale indicator

XK3118K9系列



<< XK3118K9

产品简介:

XK3118K9系列电子称重仪表，采用高精度Σ-ΔAD转换芯片，交直流两用，接口带保护，新颖的外观结构，配置高性能宽电压开关电源，适用于1~12个模拟传感器的静态汽车衡系统。

XK3118K9P内置热敏微型打印机，XK3118K9P1内置针式微型打印机；

备有多款外壳，供客户定制个性化品种。

特点及基本功能：

双覆膜前盖，镀膜显示保护板；（专利产品）

宽电压开关电源，交直流两用，随机充电；

密码管理功能，定时锁定；

高精度AD转换，可读性达1/50000；

20倍的内码显示，方便观察和分析误差；

标率备份与还原功能；

换表免标定功能；

具有超载记录存储及打印功能；

3档分度值自动切换功能；

标定误差修正功能；

开机自动置零范围、手动置零范围可独立设置，零位跟踪范围可设置；

可贮存1024个车号和皮重、100个货号、1024组称重记录；

多种打印格式，支持快速填充式打印磅单；可以进行补充打印；

统计报表/分类报表打印；

配置RS232通讯接口，通讯方式以及通讯格式可选；

配置大屏幕接口，RS232/电流环出方式；

配置并行打印机接口，可连接9针、24针宽行打印机；

配置电磁兼容防护措施；

技术参数：

准确度等级：Ⅲ级，n = 3000；

AD转换方式：Σ-Δ转换方式，24bit；

输入灵敏度：≈ 1.5 μ V/e；

传感器供桥电源：DC5V，可接1~12个350Ω电阻应变片传感器；

传感器连接方式：采用6线式（长线自动补偿，补偿距离≤50米）；

显示方式：7位LED数码管，7个状态指示位；

实时时钟显示：自动闰年、闰月，可显示年/月/日、时/分/秒；

大屏幕接口：电流环串行输出方式，600bps,传输距离≤50米；

串行通讯接口：RS232；波特率600~9600可选；

数据协议：连续/命令；

外接打印机接口：配置标准并行打印接口，推荐ESPON LQ-300K/300K + II、ESPON LQ680/730/1600K，松下KX-P1121/1131，得实DS300/2600宽行打印机；

称重数据存储：最多可贮存称重记录1024条；

仪表电源：主电源：110~220V AC，50Hz；

辅助电源：DC6V / 10Ah免维护铅酸蓄电池；

Introduction

XK3118K9 series electronic weighing indicator, with high precisionΣ-Δ AD transform chip, AC/DC amphibious, interface with protection, novel appearance structure, high performance wide voltage switch power allocation, suitable for static truck scale system of 1 ~ 12 analog load cell.

XK3118K9P built-in thermal micro-printer, XK3118K9P1 built-in needle type micro-printer;

With kinds of housings, for customization personalized varieties.

Characteristics and basic functions:

Double coated the front cover, coating display protection board; (patent products)

Wide voltage switching power supply, AC/DC amphibious, random charging;

Password management function, timing lock;

High precision AD transform, readability reaches 1/50000;

20 times the code shows, convenient to observe and analyze error;

Standard rate backup and restore function;

Changing table exemption calibration function;

with the overload records storage and print function;

3 class indexing value automatically switch function;

Calibration error correction function;

Boot automatically zeros scope, manual zeros range can be set up independently, zero tracking range can be set up;

Storable 1,024 truck numbers and tare, 100 cargo numbers., 1024 group weighing records;

Many print format, support rapid filling type printing pounds of single;

Can complement print;

Statistics/classification print;

Configuration RS232 communication interface, communication and communications format optional;

Configuration big screen interface, RS232 / current loop out ways;

Configuration parallel printer interface, can connect 9 needle, needle wide; line printer 24

Configuration EMC protective measures;

Technical parameters:

Accuracy class: Ⅲ, n = 3000;

AD transform style: Σ-Δtrain conversion way, 24bit;

Input sensitivity: the hundredth 1.5 μ V/e;

Load cell for bridge DC5V, may meet power: 1 ~ 12 350Ω resistance strain gauge load cell;

Load cell connection mode: adopts 6 line type (long distance automatic compensation, more than 50 meters) compensation;

Showing the way: seven LED digital tube, 7 state instructions a;

Real-time clock shows: automatically leap year, intercalary month, can show year /month/day, when/points/seconds;

Big screen interface: current loop serial output, 600bps, transmission distance way more than 50 meters;Serial communication interface: Rs232; Baud rate 600 ~ 9600 optional;

Data protocol: continuous/command;

External printer interface: standard parallel print interface, recommend ESPON LQ 300K/ 300K + II、ESPON LQ680/730 /, 1600K, panasonic KX - P1121/1131, real DS300/2600 wide; line printer weighing data storage: maximum storage Weighing record 1024 bar;

Indicator power: the main source: 110 ~ 220V AC, 50Hz;

Auxiliary power:DC6V / 10Ah free maintenance of lead-acid batteries;

控制仪表 Control indicator

DC209-1



<< DC209-1

产品简介:

DC209-1力矩限制器为本公司自主研发设计产品，可应用于港口桥式起重机。本控制器采用先进的高速DSP内核处理系统，具有高速的现场数据处理能力以及快速的继电器反映能力，并具有继电器单绳报警、偏载报警、总重报警、挂舱报警等多种报警方式，有效防止起重机起吊搬运货物过程中的各种超载及挂舱对起重机的损害。不锈钢外壳、壁挂式安装。自带LCD液晶屏显示，所有数据一屏显示，无需切换。

本控制器还配有专用的上位机软件，输入输出标定以及各种参数设置都通过上位机软件设置，操作更加简单直观。同时，所有的参数都保存在电脑中，如果控制器不慎损坏，无需重新标定及配置，直接将备份的数据下载到控制器中即可。

功能及特点：

可采集8路4—20mA输入的模拟量信号；

提供8路继电器控制输出，可扩展到16路，各路输出均可编程；

超载数据保存功能，可记录现场超载情况；

4路选配模拟量输出，可配置为4—20mA、0—5V、0—10V之一；

标定配置等均通过上位机软件来实现，操作简单方便；

所有的标定数据可以以文件的形式保存在电脑中，方便下次的调用；

液晶显示，实时显示单绳重量、总重、继电器状态信息；

提供RS232/RS485串行通信接口，采用国际通用的MODBUS协议通信；

选配PROFIBUS接口，实现与PLC的数据交换，提高了应用的可扩展性；

具有实时时钟显示功能；

电源电压超限保护、电源反接保护、防雷保护；

技术参数：

A/D转换：8通道 12bit；

ADC转换速度：10k Hz；

模拟信号输入范围：0 ~ 25mA；

显示：4×20LCD液晶屏显示；

串行通讯接口：RS232/RS485串行通信接口，MODBUS协议通信；

选配Profibus接口：支持完整的PROFIBUS-DP协议；

选配模拟量输出模块：可选配4路模拟量输出，0-10V或4-20mA输出；

电源：直流24V；

功耗：≤20瓦

使用环境：温度-20℃~60℃；湿度：10~85% RH；

外壳：不锈钢

尺寸：长：300毫米、宽：210 毫米、高：95 毫米（不包含安装部分）

安装方式：壁挂式

防护等级：IP54

连接头：塑料防水接头，可通过Φ6—Φ12的导线

Introduction

DC209-1 torque limiter is designed and developed by Keli company, can be used at the port crane. The controller uses advanced high-speed DSP core processing system, with high-speed data processing capacity ,and quick relay reflects ability.It has single rope relay alarm, partial load alarm, total weight alarm,hanging space alarm and other alarm ways. It effectively prevents overload and hanging space do harm to the crane cabin during the crane lifting process of handling a variety of goods.Stainless steel housing, wall hanging mount. LCD display,all data come in one screen display, no switch.

The controller also has a dedicated PC software, input and output calibration, and various parameters are set by PC software, the operation is more simple and intuitive. At the same time, all the parameters are stored in the computer, if the controller inadvertently damaged, do not need to re-calibrate and configurate,download data(stored) directly to the controller.

Characteristics and descriptions

It can collect 8 lines 4-20mA analog input signal;

Provides 8 relay control output, can be expanded to 16 channels, each output can be programmed;

Over-load data storage function, can be recorded at sight;

4 optional analog output can be configured as one of them: 4 - 20mA ,0 - 5V ,0 - 10V;

Calibration configuration through the PC software to achieve, with simple operation;

All calibration data can be saved as files on your computer to facilitate the next call;

LCD display, real-time display single rope weight, total weight, relay status information;

Provide RS232/RS485 serial communication interface,adopts international general MODBUS protocol communication;

Optional PROFIBUS interface,to achieve the data exchange with PLC, improve application scalability;

With real-time clock display;

Power supply over-limited protection, power supply reverse polarity protection, lightning protection;

Technical parameter

A/D conversion: 8channel 12bit;

ADC conversion speed: 10k Hz;

Analog signle input range: 0 ~ 25mA;

Display: 4×20LCD display;

Serial communication interface: RS232/RS485 serial communication Interface, Modbus protocol communication;

Optional Profibus interface: Support ROFIBUS-DP protocol;

Optional analog output module: it could set 4 lines of analog output,0-10V or 4-20mA output;

Power supply: DC24V;

Consumption: ≤20W;

Working environment: temprature -20℃~60℃; humidity: 10~85% RH;

Housing: Stainless steel

Size: Length:300mm,Width:210mm,Height:95mm(not Including mounting place)

Mounting method: Wall hanging

Protection class: IP54

Connector: Plastic water proof connector,it could through Φ6- Φ12 cable.

控制仪表 Control indicator

FL-JXH-8-D防雷接线盒



<< FL-JXH-8-D

产品简介:

FL-JXH-8-D是专门为保护数字传感器在雷击浪涌环境下的安全而设计的防雷接线盒。采用当前先进的防雷设计方案，并获得了上海市计量测试技术研究院的验证（检测报告编号2009J10-30-111041）。在系统良好接地的环境下使用，可有效降低数字传感器、数字接线盒遭受感应雷击损坏的概率，保障用户称重设备安全。防雷接线盒目前有4线、6线、8线、10线四种型号

功能特点:

采用不锈钢外壳，兼容性强，安装方便，符合主流使用习惯；多级保护电路设计，核心元件均采用知名专业厂家产品，残压低、反应灵敏、通流量大；防护等级高，通过了《GB/T 3482-2008 电子设备雷击试验方法》无源20KV、有源6KV雷击浪涌测试等级（即4级）。

Introduction

FL-JXH-8-D lighting protection junction box is designed for lighting surge environment,it is such a kind of lighting protection junction box.It adopts advanced lighting protection design case,and win Validation from Shanghai Insitute of Measurement and Test Technology insitute(Testing report number: 2009J10-30-111041) .Under the systems is in good earthing condition,it could reduce the destruction probabability when digital load cell and digital junction box suffering lighting,make sure the weighing equipment safe. Lighting protection junction box has four models,4wires,6wires,8wires and 10wires.

Feature:

It is with stainless steel shell,good compatibility,easy mounting,conform to main trend habits.

Multilevel protection current design,main components all adopt famous facotries' products,low residual voltage,sensitive reaction,big free float;High internal protection,it has passed <GB/T 3482-2008 Electric equipment lighting Testing Method>Without power 20KV,with power 6KV lighting surge testing class(IV class).

控制仪表 Control indicator

FB-XK3101防爆控制仪表



<< FB-XK3101

产品简介:

产品设计专用于1或2区防爆的称重控制仪表，广泛应用于化工、医药等有防爆要求的场合。

防爆等级: Exd[ia] II BT4

仪表主要特点:

- ※ AD 分辨率: 24bit
- ※ 选用7位VFD数码管（荧光数码管）；
- ※ 标配磁隔离RS232/RS485通讯接口；
- ※ 标配10路（光耦合隔离）开关量（4路输入6路OC输出）；
- ※ 可扩展Profibus接口（选配）；
- ※ 可扩展4-20mA/0-10V模拟量输出接口（选配）；
- ※ 内置辅助DC12V/300mA电源输出(可以驱动继电器)；
- ※ 开关量输出可以设置配料模式(双速双料、单速四料)、定值模式与上下限模式；
- ※ 三种标定方法，方便现场调试
- ※ 电源: 交流220V
- ※ 传感器激励电源: DC5V

Introduction

FB-XK3101 Weighing Control Indicator is specially designed for the Zone 1 and 2 explosion proof area, which is wildly used in the chemical, medicine and other explosion proof area. It's accuracy Class III, suitable for variety of Industrial Measurement applications.

Explosion Accurate Rate: Exd[ia] II BT4

Indicator Main Features

- ※ AD differentiate rate: 24bit
- ※ Adopts 7 Bits VFD(Vacuum Fluorescent Display)
- ※ Isolated RS232/RS485 Communication Interface.
- ※ 10 on-off (optical coupling isolation)(4 input, 6 OC output)
- ※ Profibus Interfaces(Optional)
- ※ 4-20mA/0-10V analogue output(Optional)
- ※ Built-in assistant DC12V/300mA power supply output(be able to drive relay)
- ※ On-off output can be set batching mode(double speed double material, single speed four material),Fixed value model and top&bottom limitation.
- ※ Three calibration Methods, Make calibration on spot more easily.
- ※ Power Supply: AC 220V.
- ※ Load Cell Excitation power supply:DC5V

控制仪表 Control indicator

XK3101/XK3101-D / XK3101-D+



<< XK3101(定货号)

产品简介:

Xk3101系列仪表集称重显示与模拟量输出于一体，前端信号处理采用高精度的24位A/D转换器，模拟量输出采用16位的D/A转换器，可方便的嵌入控制柜，是面向工业控制领域（或其他需要模拟量输出的应用场所）的称重显示控制器。

功能及特点:

- 传感器激励回路过载、短路保护功能；
- 内置两路（常开）继电器输出，输出模式可设定：重量分选模式与定值模式；
- 隔离的数字通讯接口，可选择RS232与RS485两种方式；
- 可设定模拟输出类型：4~20mA、0~20mA、0~5V或0~10V；

技术参数:

- A/D转换: 24bit；
- 更新速率可选择: 6次/秒、12次/秒、25次/秒、50次/秒；
- 输入灵敏度: ≥1.5uV/e；
- 激励电压: 5.0VDC，可驱动6只350Ω的模拟传感器
- 显示: 7位LED数码管，字高0.56寸
20段光柱指示
- 模拟电流输出: 不大于 500Ω
- 模拟电压输出: 不小于 50 KΩ
- 继电器触点容量: 交流7A / 250V，直流12A / 120V
- 电源: 交流220V，频率50Hz，



<< XK3101-D+

Introduction

Xk3101 serial indicator not only display weighing signal, but also analog signal. It adopt high-accuracy A/D 24-bit transformer to process front-stage signal,and adopt 16-bit D/A transformer for analog signal. It is installed into control cabinet conveniently , which is applied to industrial controll field or other application of analog output.

Function:

- Protection of circle overload and short circuit传；
- Built-in 2-way (open) relay output, mode of analog output could be set; Models of changeable weight value and settled weight value
- Isoluted digital communication interface, options for RS232 and RS485;
- Modes of analog output: 4~20mA、0~20mA、0~5V or 0~10V；

Parameter:

- A/D resolution: 24bit；
- Optional date update speed: 6 tims/s、12 tims/s、25 tims/s、50 tims/s；
- Input sensitivity: ≥1.5uV/e；
- Excitation: 5.0VDC，drive 6pcs analog 350Ω load cell
- Display: 7-bit LED, 0.56 inch height
20-section indication column
- Anolog current output: more than 500Ω
- Anolog voltage output: more than 50 KΩ
- Contact capacity of relay: AC 250V/7A, DC 120V/12V
- Power supply: AC 220V，50Hz，

控制仪表 Control indicator

XK3101A



<< XK3101A 控制器



<< XK3101A 传送器

控制仪表 Control indicator

XK3101C



<< XK3101C

产品简介:

XK3101A无线数传称重仪表，它能在恶劣工业环境中将称重信号以无线数字形式发送至地面仪表室接收并进行显示和控制，解决了工业现场远距离传输布线难的问题。用户在工作室内就可方便的了解到称重现场的称重情况。本系统包括XK3101A型无线称重传输器和XK3101A型无线数传称重显示控制器两部分。

- 基本功能:
- 显示方式: 6位0.8"LED数码管+8个发光二极管
- 标配隔离通讯接口: RS232/RS485
- 模拟量输出: 4-20mA和0-10V两种方式（可通过软件选择）
- 控制信号输入输出: 包括两路输入和两路继电器输出
- PROFIBUS接口（选配）
- 控制器电源: 交流220V 频率: 49~51Hz 功耗: ≤20瓦
- 传输器电源: 提供220VAC或24V DC供电方式 功耗: ≤20瓦
- 环境: 温度0℃~50℃;

- 技术参数:
- A/D转换方式: 采用 $\Delta - \Sigma$ 技术，每秒10次;
- 传感器激励: 直流5V，电流不小于120mA（驱动8只350欧姆传感器）;
- 模拟信号输入范围: 0 ~ ±39mV;
- 调制方式: GFSK;
- 工作频率: 433MHz;
- 工作信道: 16（用户可通过称重控制仪表软件选择）;
- 传输速度: 1200bit/s ~ 9600bit/s;
- 传输距离: ≤1000米（开阔地）;

Introduction

XK3101A wireless weighing indicator ,it will tansmit weighing signal to ground indicator room in terms of wireless digital in the tough industrial circumstance ,indicate and control the signals,so it successfully solves the problem of long-distance wire easy to know the testing situation in the weighing sites, this system includes XK3101A wireless weighing conveyor and XK3101A wireless digital-transmission weighing indicator

- Basic function:
- Display: 6 digital 0.8" LED tubes+8 lightemitting diode
- Standaed isolation: RS232/RS485
- Analogue output: Two 4-20mA and 0-10V（chosen by software）
- Input and output of control signals: two-way input and two-way output
- PROFIBUS interface（optional）
- Controller power supply: AC 220V Frequency: 49 ~ 51Hz power: ≤20W
- Transmitter power supply : 220V AC or 24V DC Power: ≤20W
- Operation temperture: 0℃ ~ 50℃;

- Techninical parameter:
- A/D conversion: $\Delta - \Sigma$ technology , 10times/second;
- Load cell excitation: DC 5V, current is not less than 120mA (drive 8 pcs 350hms load cells);
- Analog signals input range: 0 ~ ±39mV;
- Modulation: GFSK;
- Frequency: 433MHz;
- Channel: 16（user can choose by weighing control indicataor Software）;
- Transmission speed : 1200bit/s ~ 9600bit/s;
- Transmission distance: ≤1000米（wide open area）;

产品简介:

高精度24位ADC，兼容Modbus通讯协议，可以方便连接到DCS 控制系统。

- 功能及特点:
- 传感器激励回路过载、短路保护功能;
- 隔离的数字通讯接口，可选择RS232与RS485两种方式;

- 技术参数:
- A/D转换: 24bit;
- 更新速率可选择: 6次/秒、12次/秒、25次/秒、50次/秒;
- 输入灵敏度: ≥1.5uV/e;
- 激励电压: 5.0VDC，可驱动6只350Ω的模拟传感器
- 显示: 7位LED数码管，字高0.56寸
- 20段光柱指示
- 电源: 交流220V，频率50Hz，

Introduction

High-precision 24-bit ADC,with Modbus compatible protocol can be easily connected to a DCS control system

- Function and Characteristic:
- Excitation loop overloading,short circuit protection
- Isolated digital communication port , RS232 and Rs485

- Technical parameters:
- A/D converter: 24bit;
- Choice for refresh frequency: 6samples/sceond、12samples/sceon、25samples/sceon、50 samples/s
- Input sensitivity: ≥1.5uV/e;
- Excitation power: 5.0 VDC, could drive 6 pcs analogue load cell with 350Ω
- Display: 7 bites LED, character Heigth:0.56 inch 20 segments light indicator
- Power: AC220V, frequency 50Hz,

XK3101-E



<< XK3101E

XK3101H



<< XK3101H

产品简介：

XK3101-E是一种多用途称重仪表。采用高速采样及数据处理，适用于配料秤，定值包装秤，峰值测试等。采用48×96mm铝合金外壳，可方便的嵌入控制柜。

功能特点：

- ※可设置4种峰值测量模式
- ※开机具有自我诊断及选配件配置信息显示功能；
- ※可通过计算机进行仪表参数设定；
- ※可通过计算机进行重量标定；
- ※三种标定方法：砝码标定、标率输入、输入传感器灵敏度；
- ※三路可编程外部输入，可设置做为标定开关；
- ※标配四路高低限输出（光耦输出，耐压80VDC，300mA）；
- ※输出比较周期可设定,最快200次/秒；
- ※标配大屏幕显示器电流环接口
- ※数字调整模拟量输出（模拟输出板选配）；
- ※模拟量输出更新速度可设置，最快200次/秒；
- ※可选配接口板：RS232接口/RS485输出接口(二选一)；
- ※4-20mA模拟量输出板/0-10V模拟量输出板(二选一)；

主要参数：

技术参数：

- A/D转换：24bit；
- 转换速率：200次/秒；
- 激励电压：DC 10V，可驱动6只350Ω的模拟传感器
- 显示：6位LED数码管，字高0.56寸
- 电源：交流220V或110V（出厂前指定），频率50Hz，
- 使用温度为：0℃～40℃，小于85%RH，无冷凝。
- 存储温度为：-20℃～60℃，小于95%RH，无冷凝。
- 开孔尺寸：推荐46mm×93mm

Introduction

XK3101-E is a multi-function weighing indicator.with high speed data sampling and dealing which is applicable to batching scale and packing scale ,peak data test etc.the indicator use 48×96mm alluminium shell ,it is easy to be put into control box.

Function and characteristic:

- ※ It could set 4 modes to test peak data
- ※ Self-diagnosis and show optional configuration information
- ※ Setup the indicator parameters by PC
- ※ Re-calibration by PC
- ※ 3 Measure to calibration；weight calibration、input calibration data、input sensitivity of load cell；
- ※ 3 programmable output could be calibration switch；
- ※ 4 limit output（optical coupling isolation，pressure-resistant 80VDC，300mA）；
- ※ comparison circle out put could be set, fastest 200times/second；
- ※ Score board display interface with Current loop
- ※ Analogue out put of digital adjustment（optional）；
- ※ Analogue out put speed could be adjust,the top speed is 200times/second；
- ※ Optional interface：RS232 /RS485 (alternative)；
- ※ 4-20mA analogue out put /0-10V analogue out put (alternative)；

Technical parameter:

- A/D conversion：24bit；
- Conversion rate：200times/second；
- Excitation power：DC 10V，could drive 6 pcs of 350Ω analogue load cell
- Display：6 bites LED，character height :0.56 inch
- Power supply：AC 220V or 110V，Frequency :50Hz，
- Operation temperture：0℃～40℃，，less then 85%RH
- Storage temperture：-20℃～60℃，less then 95%RH
- Hole dimension：46mm×93mm is recommended

产品简介：

XK3101H是一款应用于冶金、石化、水泥、饲料等工业控制领域的电子称重仪表，具有多种串行通讯接口协议（Modbus与Profibus）、开关量输出接口、可扩展模拟量接口等，开关量输出可用于配料、定值输出等功能产品。

主要特点：

- 光耦隔离RS232/RS485通讯接口；
- 标配RS232及电流环用于大屏幕通讯(单向)；
- 键盘锁定功能；
- 内置4路带隔离输出继电器；
- 可扩展Profibus接口(选配)；
- 可扩展4-20mA/0-10V模拟量输出接口(选配，精度0.2%FS)；
- 开关量输出设置—配料模式和定值输出模式；

技术参数：

- A/D转换：24bit；
- ADC转换速度：7.5/15/25/50/100 Hz(可设置)；
- 传感器激励：采用直流±5V，可驱动6只350欧姆传感器；
- 模拟信号输入范围：-39mV～+39mV；
- 输入信号灵敏度：≥1.5uV/e；
- 显示：6位双排LED数码管显示；
- 键盘：置零、皮重、毛重、预置点、启动/停止、翻页、累加确认；

- 大屏幕接口：恒流源电流环及RS232两种方式；
- 串行通讯接口：光耦隔离RS232与RS485接口，连续发送或命令方式；

- 选配Profibus接口：支持完整的PROFIBUS-DP协议；总线最大传输速率12Mbit/s，波特率自适应；支持同步和冻结模式；

- 选配模拟量输出模块：0-10V电压输出或4-20mA电流输出，（二选一）电压输出要求负载电阻不小于100kΩ，电流输出时负载电阻不大于500Ω。

- 电源：交流220V；50Hz
- 功耗：≤20瓦
- 使用环境：温度0℃～40℃；湿度：10～85% RH；
- 存储环境：温度0℃～50℃；湿度：10～95% RH；
- 外壳材料：不锈钢；
- 安装方式：壁挂式；
- 外壳尺寸(长*宽*高)：275*194*76 (mm)；
- 安装尺寸(长*宽)：255*110 (mm)；

Introduction

XK3101H a weighing indicator, it is applied to fields of metal smelt, oil, sement industry, system of feedingstuff and so on, with various serial interfaces of Modbus and Profibus, on-off output, and extensible analog output and so on. On-off output is applied to system of batching, settled value ouput and so on.

Main Features:

- Optial coupling isolation for interface of RS232 and RS485
- Standard RS232 and current loop for remote display (single-direction)
- Lockable keyboard
- Built-in 4-way with isolated relay output
- Extensible Profibus interface(Optional)
- Extensible analog output interface of 4-20mA/0-10V (optional, accuracy 0.2% F.S)
- Setting of on-off output: batching model and settled value output

Parameter:

- A/D resolution: 24 bits
- ADC convert speed: 7.5/15/25/50/100 Hz (Could be set)
- Excitation vottage of load cell: 5.0VDC，drive 6pcs analog 350Ω load cell
- Range of inputing analog signal: -39mV～+39mv；
- Input sensitivity: ≥1.5uV/e；
- Display: 6-bit and double-line LED
- Keyboard: Zero, tare, gross, pre-setting point, star/stop, thumbing, Accumulating confirmation.

- Interface of remote display: settled current loop and RS232
- Port of serial interface: optical isolated RS232 and RS485, non-stopp sending instruction

- Optional Profibus interface: support protocol of profibus-DP; longest transmitting distance of bus 12Mbit/s, self-adjust baud rate, support modes of synchronization and inactive

- Optional module of analog output: 0-10V output or 4-20mA output (alternative)
- Load resistance for voltage is less than 100kΩ，load resistance for current is less than 500Ω

- Power supply: AC 220V, 50Hz
- Consumption: ≤20W
- Working condition: temperature 0℃～40℃；humidity：10～85 % RH；
- Storage condition: temperature 0℃～50℃；humidity：10～95%RH；
- Type of installation: hang
- Dimension of outline: 275 mm (L)*194 mm (W)*76 mm (h)；
- Installation dimension: 255 mm (L)*110 mm (W)

控制仪表 Control indicator

XK3101-K



<< XK3101-K

控制仪表 Control indicator

KL-3101F



<< KL-3101F

控制仪表 Control indicator

XK3101T4



<< XK3101T4

产品简介：

XK3101-K是面向工业控制领域（或其他需要模拟量输出的应用场所）的电子称重仪表。前端信号处理采用高精度的24位专用A/D转换器，模拟信号输出采用16位的D/A转换器，具有RS232/RS485串行通讯接口，采用铝合金外壳，可方便的嵌入控制柜，可广泛用于水泥、化工、冶金等行业的称重系统。

主要特点：

- 内置两路（常开）继电器输出，输出模式可设定：重量分选模式与定值模式；
- 隔离的数字通讯接口，可选择RS232与RS485两种方式；
- 可设定模拟输出类型：4~20mA、0~20mA、0~5V或0~10V；
- 三种标定方法，适应多种场合下标定

技术参数：

- A/D转换：24bit；
- 更新速率可选择：6次/秒、12次/秒、25次/秒、50次/秒；
- 输入灵敏度： $\geq 1.5\mu\text{V/e}$ ；
- 激励电压：5.0VDC，可驱动6只350 Ω 的模拟传感器
- 显示：7位LED数码管，字高0.56寸
20段光柱指示
- 模拟电流输出：不大于500 Ω
- 模拟电压输出：不小于50K Ω
- 继电器触点容量：交流7A / 250V，直流12A / 120V
- 电源：交流220V，频率50Hz，
- 使用温度为：0 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$ ，小于85%RH，无冷凝。
- 存储温度为：-20 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$ ，小于95%RH，无冷凝。

Introduction

XK3101-K a weighing indicator, which is applied to industrial control fields, also for some application of outputting analog signal. It adopts high-accuracy 24-bit A/D transformer for front-signal transaction and 16-bit D/A transformer for analog signal output. It is with aluminium enclosure, easy to be installed into control cabinet. XK3101-K could be widely applied to weighing system of sement, chemical industial, metal smelt industrial and so on.

- Built-in 2-way (open) relay output, mode of analog output could be set; Models of changeable weight value and settled weight value
- Optial coupling isolated interfaces of RS232 and RS485
- Modes of analog output: 4~20mA、0~20mA、0~5V or 0~10V;
- 3 modes of calibration, suitable to various application

Parameter:

- A/D resolution: 24 bits
- ADC convert speed: 6 times /s、12 times /s、25 times /s、50 times /s ;
- Input sensitivity: $\geq 1.5\mu\text{V/e}$;
- Excitation voltage of load cell: 5.0VDC, drive 6pcs analog 350 Ω load cell
- Display: 7-bit LED, 0.56 inch height
20-section indication column
- Analog current output: more than 500 Ω
- Analog voltage output: more than 50 K Ω
- Contact capacity of relay: AC 250V/7A, DC 120V/12V
- Power supply: AC 220V, 50Hz,

- Working condition: temperature 0 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$;
humidity is less than 85% RH; non-condensation
- Storage condition: temperature -20 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$;
humidity is less than 95% RH ; non-condensation

产品简介：

KL-3101F型叉车仪表可应用于各种对移动性强、低功耗的场合。

一、仪表主要特点

- ※ 高清晰6位液晶显示
- ※ 低功耗：4节 x 1.5V AA 碱性电池（选配件）
- ※ 显示更新速度可选(3~10次/秒)
- ※ 多功能（开机零点捕捉、零点跟踪、清零、去皮、单位转换、累计和自动关机）

二、技术参数

- ※ 传感器激励电压：DC 3V，电流不小于35mA(可驱动4只350 Ω 传感器)
- ※ 传感器灵敏度范围： $\geq 1\mu\text{V/d}$
- ※ 显示刷新率：3/5/8/10次/秒
- ※ 模拟信号输入范围：0~ $\pm 6\text{mV}$
- ※ 分度值：0.01/0.02/0.05/0.1/0.2/0.5/1/2/5/10/20/50
- ※ 使用环境：温度0 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$ ；相对湿度 $\leq 85\%$ RH
- ※ 存储环境：温度0 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$ ；相对湿度 $\leq 95\%$ RH

Introduction

KL-3101F type pallet truck scale indicator can be used in a high movability, low-power consumption applications.

I Main features

- ※ High-definition 6-bit LCD display
- ※ Low power consumption: 4 x 1.5V AA alkaline battery (options)
- ※ Optional display refresh rate (3~10 times / second)
- ※ Multi function (start-up zero catching, zero tracking, reset, tare, unit conversion, cumulative and automatic shutdown)

II Technical parameters

- ※ Load cell excitation voltage: DC 3V, current is not less than 35mA (it could Drive 4pcs of 350 Ω load cell)
- ※ sensitivity range of the load cell: $\geq 1\mu\text{V/d}$
- ※ Display refresh rate: 3/5/8/10 times / second
- ※ analog signal input range: 0~ $\pm 6\text{mV}$
- ※ Division value: 0.01/0.02/0.05/0.1/0.2/0.5/1/2/5/10/20/50
- ※ Operation Temperature 0 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$; relative humidity $\leq 85\%$ RH
- ※ Storage Temperature 0 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$; relative humidity $\leq 95\%$ RH

产品简介：

XK3101T4仪表采用24位高精度ADC转换芯片，直流12~24V供电，面板式安装，整体透明防水外壳，安装方便，适用于固定式静态称重系统。

功能特点：

- 透明防水外壳；
- 全双工RS232C串行接口；
- 可以通过串口命令进行去皮、置零操作；
- 直流12~24V电源；

技术参数：

- A/D转换方式： $\Delta - \Sigma$ 转换方式，24bit
- 转换速度：7.5/15/25/50次/秒；
- 输入灵敏度： $\geq 1.0\mu\text{V/e}$
- 传感器供桥电压：DC 5V，最多可接4个350 Ω 电阻应变片传感器；
- 显示：6位LED数码管，字高0.56寸；
- 电源：直流12~24V；
- 功耗： $\leq 3\text{W}$
- 使用温度为：0~+40 $^{\circ}\text{C}$ ，湿度 $\leq 85\%$ （RH）；
- 存贮温度为：-20~+60 $^{\circ}\text{C}$ 湿度 $\leq 95\%$ （RH）；

Introduction

XK3101T4 indicator adopts 24 bits of high precision ADC clip, DC 12~24V power supply, panel type installation, transparent and water-proof housing, installation is convenient, suitable for fixed static weighing system.

Features:

- Transparent and water-proof housing platform scale;
- Full-duplex RS232C serial interface;
- Tare、Zero operation by serial port command;
- DC 12-24V power supply;

Technical parameter:

- A/D type： $\Delta - \Sigma$, 24bit
- Converting speed: 7.5/15/25/50 times/sec;
- Input sensitivity: $\geq 1.0\mu\text{V/e}$
- Load cell supply voltage: DC 5V, can connect maximum 4pcs 350 Ω strain gauge load cells;
- Display: 6 digits of LED, character height is 0.56 inches;
- Power supply: DC 12-24V;
- Power Consumption: 3 W;
- Operation temperature: 0~+40 $^{\circ}\text{C}$, humidity $\leq 85\%$ （RH）；
- Storage temperature: -20~+60 $^{\circ}\text{C}$, humidity $\leq 95\%$ （RH）；

控制仪表 Control indicator

XK3101T5



<< XK3101T5

控制仪表 Control indicator

XK3101-D1



<< XK3101-D1

产品简介：

XK3101T5仪表采用24位高精度ADC转换芯片，直流12~24V供电，面板式安装，结构简单，体积小，安装方便，适用于固定式静态称重系统。

- 功能特点：
- 柜式安装的台秤仪表；
 - 全双工RS232C串行接口；
 - 直流12~24V电源；
 - 三种标定方法：砝码标定、参数替换、输入秤体参数；

- 技术参数：
- A/D转换方式：Δ-Σ转换方式，24bit
 - 转换速度：7.5/15/25/50次/秒；
 - 输入灵敏度：≥1.5uV/e
 - 传感器供桥电压：DC 5V，最多可接4个350Ω电阻应变片传感器；
 - 显示：6位LED数码管，字高0.56寸；
 - 电源：直流12~24V；
 - 功耗：≤3瓦；
 - 使用温度为：0~+40℃，湿度≤85%（RH）；
 - 存储温度为：-20~+60℃ 湿度≤95%（RH）；
 - 安装开孔尺寸：推荐76*151mm

Introduction

XK3101T5 indicator adopts 24 bits of high precision ADC clip, DC 12~24V power supply, panel type installation, volume is small, installation is convenient, suitable for fixed static weighing system.

- Features:
- Control cabinet type platform indicator;
 - Full-duplex RS232C serial interface;
 - DC 12-24V power supply;
 - Three calibration ways: weight calibration、parameter replacement、input scale parameter;

- Technical parameter:
- A/D type: Δ-Σ, 24bit
 - Converting speed: 7.5/15/25/50 times/sec;
 - Input sensitivity: ≥1.5uV/e
 - Load cell supply voltage: DC 5V, can connect maximum 4pcs 350Ω strain Gauge load cells;
 - Display: 6 digits of LED, character height is 0.56 inches;
 - Power supply: DC 12-24V;
 - Power Consumption: ≤3 W;
 - Operation temperature: 0~+40℃, humidity≤85%（RH）;
 - Storage temperature: -20~+60℃, humidity≤95%（RH）;
 - Installing hole dimension: recommended 76*151mm

产品简介：

XK3101-D1是一款数字称重仪表，适用于柜装式静态数字称重系统。

- 功能特点：
- 适用柯力C型传感器；
 - 数字传感器内码查看功能；
 - 自动调角差功能和手动调角差功能；
 - 标定与参数设置独立，可恢复出厂设置；
 - 密码修改和各按键密码独立管理。
 - 具有非线性修正功能；
 - 配置大屏幕接口；
 - 配置串行通讯接口；
 - PC通讯有连续方式和Modbus-RTU指令方式可选；
 - 全面配置EMC电磁兼容防护措施；
 - 错误信息提示；

- 技术参数：
- 数字传感器接口：RS485方式，最大传输距离≤75米
 - 传输速率：C协议9600bps；
 - 数字传感器供电电源：DC12V/≈750mA
 - 数字传感器连接数量：1~16个
 - 数字传感器通讯通讯协议：柯力C协议
 - 显示：6位LED数码管，6个状态指示符；
 - 大屏幕显示接口：20mA电流环恒流源串行输出，波特率600，传输距离≤100米；
 - RS232，波特率600，传输距离≤30米；
 - 串行通讯接口：配置标准RS232/RS485，波特率600~19200可选
 - 仪表电源：DC24V/0.9A
 - 开孔尺寸：160mm（宽）*80mm(高)

Introduction

- Function:
- Available to Keli's C type digital load cell
 - Identify ISN of digital load cell
 - Self-adjust and manual adjustment for corner error
 - Pamemers of calibrationa and setting are operated separately, also could be restored to factory defaults
 - Revisable password and every password keys could be administrated separately
 - Non-linearity adjustment
 - Interface for remote display
 - Port of serial interface
 - Options for PC serial communication and Modbus-RTU
 - Adopted measure of EMC

- Technical parameter:
- interface of digital load cell: RS485, longest distance ≤75m
 - transfer rate: C type protocol 9600bps
 - Power supply of load cell: DC12V/≈750mA
 - Quantity of load cells: 1 to 16pcs
 - Protocol: Keli C type
 - Display: 6-bit LED, 6pcs status indicating symbols.
 - Interface of remote display: 20mA current loop, baud rate 600bps, transmitting distance ≤100m:
 - RS232, baud rate 600bps, transmitting distance ≤30m:
 - Serial interface: standard RS232/RS485, baud rate 600-9600bps is optional
 - Power supply of indicator: DC24V/0.9A
 - Installation dimension: 160mm(W)*80mm(H)

XK3101-D2



<< XK3101-D2

XK3102P定量包装控制器



<< XK3102P

产品简介：

XK3101-D2是一款数字式工控仪表，四路开关量输出，适用于柜装式静态数字称重控制系统。

- 功能特点：
- 适用柯力E型或柯力C型传感器；
 - 数字传感器内码查看功能；
 - 自动调角差功能和手动调角差功能；
 - 具有2种自动组网方式；
 - 仪表与传感器通讯支持加密功能；
 - 支持Modbus-RTU协议；
 - 可恢复出厂设置；
 - 具有非线性修正功能；
 - 内置四路继电器输出接口；
 - 配置大屏幕接口；
 - 配置串行通讯接口；
 - PC通讯有连续方式和Modbus-RTU指令方式可选；
 - 全面配置EMC电磁兼容防护措施；
 - 错误信息提示；

- 技术参数：
- 数字传感器接口：RS485方式，最大传输距离≤75米
 - 传输速率：E协议19200 bps，C协议9600bps；
 - 数字传感器供电电源：DC12V/≈750mA
 - 数字传感器连接数量：1~16个
 - 数字传感器通讯协议：柯力E/柯力C协议
 - 显示：6位LED数码管，6个状态指示符；
 - 四路继电器输出接口：常开，控制参数可设置
 - 继电器触点容量：交流250V/5A 直流30V/5A
 - 大屏幕显示接口：20mA电流环恒流源串行输出，波特率600，传输距离≤100米；RS232，波特率600，传输距离≤30米；
 - 串行通讯接口：配置标准RS232/RS485，波特率4800~19200可选
 - 仪表电源：交流220V，50Hz；
 - 开孔尺寸：160mm（宽）*80mm(高)

Introduction

XK3101-D2 is a digital control weighing indicator, 4-way on-off output, available to static digital weighing system in cabinet installation

- Function:
- Available to Keli's E or C type digital load cell
 - Identify ISN of digital load cell
 - Self-adjust and manual adjustment for corner error
 - Two kinds of self-created network
 - Communication between digital load cell and indicator could be encrypted.
 - With Modbus-RTU protocol
 - Restored to factory defaults
 - Non-linearity adjustment
 - Interface of internal 4-way relay output
 - Interface for remote display
 - Port of serial interface
 - Options for PC serial communication and Modbus-RTU
 - Adopted measure of EMC
 - Error indication
 - Technical parameter:
 - interface of digital load cell: RS485, longest distance ≤75m

- transfer rate: E type protocol 19200bps, E type protocol 9600bps,
- Power supply of load cell: DC12V/≈750mA
- Quantity of load cells: 1 to 16pcs
- Protocol: E or C type of Keli
- Display: 6-bit LED, 6pcs status indicating symbols.
- Interface of 4-way relay output: open default, parameters could be set
- Contact capacity of relay: AC 250V/5A, DC30V/5A
- Interface of remote display: 20mA current loop, baud rate 600bps, transmitting distance ≤100m; RS232, baud rate 600bps, transmitting distance ≤30m;
- Serial interface: standard RS232/RS485, baud rate 4800-19200bps
- Is optional
- Power supply of indicator: AC220V, 50Hz;
- Installation dimension: 160mm(W)*80mm(H)

产品简介：

XK3102P适用于称重法定量包装控制机械, 内置三种常用控制流程, 可预先设定5套物料目标量。通过称重传感器测量被包装物体的重量，继电器输出按照固定的流程动作，实现快慢加料、夹袋、卸料等动作。仪表采用2.7寸OLED点阵显示器，中文界面，操作简单；96×96mm标准面板尺寸，外形小巧，推荐嵌入安装开口尺寸92×92mm。

- 主要功能特点：
- 加料与卸料流量监控功能；
 - 提供累计总量及批次数统计；
 - 双速加料、点动加料，自动落差补偿等功能；
 - 当实际量小于目标量时允许添量配料；
 - 具有实时时钟；
 - 内置RS232与RS485通讯接口（通过内部跳线选择）；
 - 可设定自动去皮延迟时间；
 - 可设定重量比较采样次数；
 - 内部计数器实时显示已包装数量；
 - 中文报警信息提示；
 - 设置四个显示计量单位（kg ,g,lb,t）；
 - 可设置为减量法包装；
 - 传感器输入有长线补偿功能；

- 技术参数：
- A/D转换：24bit；
 - 采样速度：每秒50次；
 - 输入灵敏度：≥1.0uV/e；
 - 激励电压：DC 4.8V，可驱动6只350Ω的模拟传感器
 - 显示：2.7寸OLED点阵显示器，中文界面；
 - 显示更新速度：每秒10次；
 - 输入/输出：6路输入（干接点），9路继电器输出（触点容量2A 250V）；
 - 电源：交流110V--220V, 50/60Hz；
 - 最大功耗：5瓦；
 - 使用温度及湿度：0℃~40℃，≤85%（RH）无冷凝；
 - 存储温度及湿度：-10℃~60℃，≤95%（RH）无冷凝；
 - 外形尺寸（mm）：96×96×110；
 - 推荐开孔尺寸：92×92mm，控制柜深度：不小于140mm；

Introduction

XK3102P is suitable for weighing type quantitative packing control machine, built-in three kinds of control flow process, can preset 5 sets of material objective value. Load cells measure the weight of packed material, relay output fixed flow process action, realize quick-slow feeding material、clamping bags、discharging material etc. action. Indicator adopts 2.7 inches OLED lattice displayer, Chinese display, operation is easy; 96×96mm standard panel dimension, volume is small, recommended inserted installing hole size is 92×92mm.

- Main features:
- feeding and discharging flow monitor function；
 - accumulating total and statistic batch quantity；
 - double speed feeding、point moving feeding, automatic drop compensation etc function；
 - when actual quantity is less than target quantity, allow to add ingredients；
 - with real time clock；
 - with built-in RS232 and RS485 communication interface（select by inside jumper）；
 - automatic tare delay time can be set；
 - weight comparison sampling times can be set；
 - inside counter real time display included quantity；
 - Chinese alarming info. prompt；
 - set four display measuring unit（kg ,g,lb,t）；
 - can set decreasing packing；
 - load cell input with long cable compensation function；

- Technical parameter:
- A/D: 24bit；
 - Sampling speed: 50times/sec；
 - Input sensitivity: ≥1.0uV/e；
 - Excitation voltage: DC 4.8V, can drive 6 pcs of 350Ω analogy load cells
 - Display: 2.7 inches OLED lattice display；
 - Display update speed: 10times/sec；
 - Input/Output: 6 routes input（dry contact），9 routes relay output（Contact capacity 2A 250V）；
 - Power supply: AC 110V~220V, 50/60Hz；
 - Max.Power consumption: 5 W；
 - Operation temperature and humidity: 0℃~40℃, ≤85%（RH）no Condensation；
 - Storage temperature and humidity: -10℃~60℃, ≤95%（RH）no Condensation；
 - Outline dimension（mm）: 96×96×110；
 - Recommended hole dimension: 92×92mm, control cabinet depth: no less Than 140mm；

大屏幕系列



<< DPM-3B/5B



<< DPM-2.3 DPM-3 DPM-5

产品简介:

大屏幕是针对仪表室外远距离显示而设计的配套产品。大屏幕由6位LED数码管组成，具有字型大、亮度高、寿命长、抗干扰能力强等优点。

显示:	6位高亮度LED数码管
输入信号:	20mA电流环信号、RS232信号;
供电电源:	AC220V, 50Hz;
波特率:	600bps;
功耗:	DPM-2.3和DPM-3≤10W; DPM-5≤15W;
外形尺寸:	DPM-2.3: 380mm*145mm*49mm(LxWxH); DPM-3: 500mm*160mm*60mm(LxWxH); DPM-5: 750mm*240mm*63mm(LxWxH);

DPM-3B/5B不锈钢大屏幕

DPM-3B/5B大屏幕是在原来DPM-3/DPM-5的基础上，外壳采用不锈钢材质，外观尺寸、技术尺寸参数不变。

DPM-5H广告型大屏幕与DPM-5相比，增加了一块贴附厂商广告或信息的区域，方便衡器厂商的产品及服务宣传。

外形尺寸: 780×370×63 (L×W×H)

DPM-5-GK工控大屏幕

Modbus RTU的通讯协议更符合工业上的使用，奇偶校验、波特率可设置。

通讯协议:	Modbus RTU;
校验:	无、奇、偶校验可供选择;
波特率:	1200、2400、4800、9600bps可供选择;
外形尺寸:	DPM-5: 750mm*240mm*63mm(LxWxH);

DPM-3-C

在DPM-3大屏幕基础上，加大壳体的外形尺寸，使外观更加大方。可帖附厂商广告信息。

外形尺寸: 540*180*60mm (重量: 3200g)

Introduction

Scoreboard is specially designed for outdoor long-distance display,is an auxiliary product of indicator.It is composed with 6 bits LED,has advantages as large fonts, high brightness, long life, anti-interference ability and so on.

Display:	6 bits of high brightness LED
Input signal:	20mA current loop signal, RS232 .
Power supply:	AC220V, 50Hz;
Baud Rate:	600bps;
Power consumption:	DPM-2.3 and DPM-3 ≤ 10W; DPM-5 ≤ 15W;
Dimension:	DPM-2.3: 380mm * 145mm * 49mm (LxWxH); DPM-3: 500mm * 160mm * 60mm (LxWxH); DPM-5: 750mm * 240mm * 63mm (LxWxH);

DPM-3B/5B stainless steel outlook scoreboard
DPM-3B/5B scoreboard is based on DPM-3/DPM-5 ,the shell is made of stainless steel, exterior dimensions,technical parameters do not change.



DPM-5H advertisement type scoreboard compared with the DPM-5, increase an area for manufacturer advertisement or information showing,it is convenient for weighing manufacturers of products and services promotion.
Dimensions: 780 × 370 × 63 (L × W × H)

DPM-5-GK industry controlling scoreboard
Modbus RTU communication protocol,it is suitable for industry using,parity,baud rate could be set.

Communication protocol: Modbus RTU;
Verify:non.odd parity,even parity optional;
Baud rate: 1200、2400、4800、9600bps optional;
Dimensions: DPM-5: 750mm*240mm*63mm(LxWxH);

DPM-3-C

It is custom type with advertising messages scoreboard, display company name, phone number, etc;
Based on the DPM-3 model,the out dimensions have been expanded,make the outlooking more generous.
Displaying the advertisements of the manufacture.
Dimensions: 540 * 180 * 60mm (weight: 3200g)

KM01B



<< KM01B

产品简介:

KM01B变送器可驱动4只350的电阻应变式称重传感器，有两路输出。一路由三个传感器并联输入经变送器转换输出；另一路由单个传感器输入经变送器转换输出。采用密封外壳，广泛应用于水泥、冶金、化工等行业的配料控制系统。

技术参数:	
AD转换:	Σ-Δ方式, 24bit;
AD转换速度:	15次/秒;
传感器激励电压:	DC5V,可驱动4只350的模拟式传感器;
量程信号范围:	±20mV;
模拟输出分辨率:	1/10000;
模拟输出类型:	4~20mA;
电流输出:	最大负载电阻500Ω;
非线性质:	0.1%FS;
变送器电源:	直流15~24V;
使用环境温度:	0℃~40℃;
相对湿度:	≤85%RH;
最大功耗:	3W;

Introduction

KM01B Weighing Transducer can drives 4 pcs of 350ΩAnalog Load Cells with two routes output.
One route use for three load cells parallel input through weighing transducer converted output. The other route use odd load cell input through weighing tranducer(KM01B) to output.. With the hermetical housing.
Application for Concrete, Metallurgy, Chemical etc industrial controlling system.

Technical Parameter:	
◎A/D Conversion:	Σ-Δ mode, 24bits.
◎AD Conversion Speed:	120 times/Sec.
◎Excitation Voltage For Load Cell:	DC 5V, Can drive 6pcs analog Load Cells With resistance in 350Ω
◎Capacity Signal Range:	±20mV.
◎Analog output division:	1/10000
◎Analog output Type:	4~20mA
◎Current Output:	(Maximum Load Resistance)500Ω
◎Nonlinearity:	0.1%FS.
◎Transducer Power supply:	DC15~24V.
◎Use Temperature Range:	0℃~40℃.
◎Relative Humidity:	≤85%RH.
◎Maximum Power supply:	3W.

KM01E



<< KM01E

产品简介:

KM01E型重量变送器是针对工业控制领域（或其他需要模拟量输出的应用场所）的增强型变送器。该重量变送器具有精度高、操作简单、抗干扰能力强和宽电压及宽温工作范围的特点。

- 主要特点:
- 1、6只350的模拟传感器输入
 - 2、高精度、高分辨率Σ-Δ A/D转换
 - 3、模拟输出类型可选择: 4-20mA、0-20mA、0-24mA、0-5V (0-10V)
 - 4、多重数字滤波功能
 - 5、模拟输出光电隔离
 - 6、宽压隔离输入电源模块
 - 7、密封式外壳

技术指标:	
◎传感器激励电压:	DC 5V, 可驱动6只350的模拟式传感器
◎量程信号范围:	40mV
◎电流输出:	最大负载电阻500欧姆
◎电压输出:	最小负载电阻10, 000欧姆
◎模拟输出分辨率:	1/10000
◎电源:	直流18~36V
◎非线性度:	0.1%FS

Introduction

KM01E Weighing Transducer is an enhanced Weighing Transducer Produced by facing to the Industrial control fields (or other applications that need analog output). It has feature of high accuracy, easy operation, good anti-jumping, wide voltage, wide working temperatures end etc.

- Main Features:
- ◎ 6 pcs of 350Ω analogy Load cells Input.
 - ◎High accuracy, high Reso Σ-Δ A/D Conversion.
 - ◎Optional analogy output: 4-20mA、0-20mA、0-24mA、0-5V (0-10V) .
 - ◎Multiple Digital Filtering Function
 - ◎Analogue output optical Isolation.
 - ◎Wide Voltage Isolated Input Power Supply Module.
 - ◎Hermetical Housing.

Technical Parameter:	
◎Excitation Voltage For Load Cell:	DC 5V, Can drive 6pcs analog Load Cells With resistance in 350Ω
◎SPAN Signal:	40mV
◎Current Output:	(Maximum Load Resistance)500Ω
◎Voltage Output:	(Minimum Load Resistance) 10000Ω
◎Analog output division:	1/10000
◎Power:	Dc18~36V
◎Non-linearity:	0.1%FS

控制仪表 Control indicator

KM01C



<< KM01C

控制仪表 Control indicator

KM06



<< KM06

产品简介:

KM01C重量变送器

KM01C是一款在KM01A的基础上进行二次开发，主要是针对硬件、功能及软件上的完善。

(1) 产品简介

- 最多可驱动6个350 口的模拟式传感器，1~6只传感器任意接。
- 模拟输出类型可选择：4 ~ 20mA、0 ~ 20mA、0 ~ 5V、0 ~ 10V
- KM01C型重量变送器内置六路称重传感器接线端子，采用密封式外壳，工作温度范围-20℃ ~ 50℃，可应用于各种工业环境。
- 两种标定方式，可进行现场标定，使用方便。

(2) 主要技术参数	
• 非线性质:	0.1%FS
• 输入电源电压:	15 ~ 24V DC
• 传感器激励电源:	5V DC
• 最大输入信号:	± 19mV
• 最小动态范围:	3mV
• 电流输出负载:	<500 Ω
• 电压输出负载:	>200K Ω
• 空载输出极限值空载值	空载值+空载值*10% (该项只对4~20mA输出类型有效)
• 满载输出极限值:	满载值+满载值*5%
• 使用温度范围:	-20℃ ~ 50℃
• 存储温度范围:	-30℃ ~ 70℃

Introduction

KM01C is improved weighing transducer based on KM01A which perfecting about hardward, functions etc.

(1) Main Features:

- 6 pcs of 350Ω analogy Load Cells Input.
- Optional analogy output: 4-20mA、0-20mA、0-24mA、0-5V (0-10V) .
- Use the hermetical housing with protection rate IP65 and working temperature range is -20℃~50℃,can apply into all kinds of industrial weighing control fields.
- Two Calibration modes with debugging conveniently at spot.

(2) Technical Parameter:	
• Nonlinearity:	0. 1 %RH
• Input Voltage Supply:	15 ~ 24V DC.
• Excitation Voltage For Load Cell:	5V DC.
• Maximum Input Signal:	±19mV.
• Minimum dynamic range:	3mV.
• Current Output:	<500 Ω .
• Voltage Output:	>200K Ω .
• Vacancy loading output limited value:	Vacancy Loading Value + Vacancy Loading value*10%(useful for 4~20mA output mode only.
• Full Loading Output Limited Value:	Full Loading value + Full Loading Value*5%
• Use Temperature Range:	-20℃ ~ 50℃.
• Store Temperature Range:	-30℃ ~ 70℃.

产品简介:

KM06型峰值测试仪的信号采集使用高速、高精度的24位专用A/D转换器，使用高速单片机对信号进行运算处理，及时捕捉瞬间的最大值。小巧的盘式装铝合金外壳，可方便的嵌入式各种控制柜。是各种力值实验机理想的配套仪表。

主要特点:

内置两路（常开）继电器输出；

输出模式可设定，重量分选模式与定值模；

选配RS232数字通讯接口；

实时时钟，切换显示时间（8位），当前值（6位）与峰值（6位）；

单位kg与N可以转换；

CENTRONICS标准的打印接口；

技术参数:	
AD转换:	Σ-△方式，24bit；
AD转换速度:	120次/秒；
传感器激励电压:	DC5V，可驱动4只350的模拟式传感器；
量程信号范围:	± 20mV；
电源:	交流220V
使用环境温度:	0℃~40℃；
相对湿度:	≤85%RH；
面板尺寸:	85*170 (mm)
控制柜安装开孔尺寸:	推荐76*151 (mm)

Introduction

Signal adoption of KM06 type max-strength tester uses high speed and high precision A/D transformer with 24 digits. It uses high speed SCM to operate the signal and can catch momentary maximum value in time. Small cassette type aluminum housing is convenient to insert it into controlling cabinet. KM06 is an ideal indicator for matching with various strength-value testers.

Main Features:

- ⊙Two-point(open)relay output.
- ⊙Output mode can be set as separate weight mode and Fixed value Mode.
- ⊙RS232 digital communication connector (Optional)
- ⊙Have Real Time clock, which can display time (8 digits),present value(6 digits) and maximum value(6 digits) at the same time.
- ⊙Displayed unit Can be exchanged between kg and N.
- ⊙With CENTRONICS standard printing Connector.

Technical Parameter:	
⊙A/D Conversion:	Σ-△ mode, 24bits.
⊙AD Conversion Speed:	120 times/Sec.
⊙Excitation Voltage For Load Cell:	DC 5V, Can drive 6pcs analog Load Cells With resistance in 350Ω.
⊙Capacity Signal Range:	±20mV.
⊙Power Supply:	AC220V.
⊙Using environment temperature:	0℃~40℃
⊙Relative Humidity:	≤85%RH.
⊙Size of Faceplate:	85*170 (mm) .
⊙Installation and trepanning size of controlling cabinet:	76*151 (mm) .

控制仪表 Control indicator

KL1000D



<< KL1000D

控制仪表 Control indicator

KL2000D



<< KL2000D

产品简介：

KL1000D是饲料搅拌专用称重控制仪表，直流24V供电，适合牧场作为各类饲料配制场合的称重控制系统。

- 功能特点：
- 可以储存20组配方；
 - 每组配方可以存储100个料号；
 - 料号自动步进；
 - 仪表可以设置预警数值（百分比）；
 - 2.3英寸超大数码管显示重量值；
 - 配方号、料号显示；

- 技术参数：
- A/D转换：Δ - Σ 方式，24bit；
 - 输入灵敏度：≥1.5uV/e；
 - 传感器供桥电压：DC+ 5V,可接1~6个350Ω电阻应变式传感器；
 - 传感器连接方式：采用6线式；
 - 重量显示：4位2.3英寸LED数码管；
 - 配方号、料号显示：0.8英寸2位LED数码管显示配方，2位LED数码管显示料号；
 - 4个状态指示灯，1个电源指示灯；
 - 大屏幕接口：电流环恒流源输出，600bps；
 - 串行通讯接口：RS232C，波特率1200~9600可选，传输距离≤30米；
 - 数据贮存：配方20个，料号每个配方最多100个；
 - 电源：DC 24V；
 - 使用环境：-30℃~60℃，≤85%（RH），无冷凝；
 - 仪表外形尺寸：250×200×52（mm）
 - 产品自重：约2.1kg；

Introduction

KL1000D is a weighing indicator dedicated for feed mixing system. Powered by DC supply (DC24V) and is suitable for the weighing and controlling system of all types of feed making applications.

- Functions and Characteristics:
- Storage of 20 sets of formulas;
 - Each formula can store 100 ingredient numbers;
 - Automatic stepping of ingrediente numbers;
 - Prewarning value (percentage) can be settetd with the indicator;
 - 2.3 inch LED display of weighing value;
 - Display of formula number and ingredient number.

- Technical Parameters
- A/D Conversion Type: Δ - Σ; 24 bits;
 - Input Sensitivity: ≥1.5uV/e;
 - Aliment Voltage of Load Cell: DC+ 5V. Connection of 1-6 pieces of 350 ohm strain gauge load cell;
 - Connection Type of Load Cell: 6-wire;
 - Display of Weighing Data: 4-digit 2.3 inch LED display;
 - Display of Formula Number and Ingredient Number: 0.8 inch 2-digit LED display for formula; 2-digit LED display For ingredient number. 4 status indicators. 1 Power light;
 - Port of Scoreboard: constant current loop output 600bps;
 - Port of Serial Communication: RS232C. Baud rate 1200-9600 Optional. Transimission distance ≤ 30 Meters; Storage of Datas: 20 formulas and maximum 100 ingredient numbers For each formula;
 - Power Supply: DC24V
 - Working Environment: -30℃~60℃, ≤85%（RH）. No Condensation;
 - Outside Dimension of Indicator: 250×200×52（mm）
 - Weight of Product: around 2.1kg.

产品简介：

KL2000D是饲料搅拌专用称重控制仪表，交直流供电（直流24V），带内置热敏微型打印机，适合牧场作为各类饲料配制场合的称重控制系统。

- 功能特点：
- 可以储存20组配方；
 - 每组配方可以存储100个料号；
 - 加料过程自动存储料重；
 - 料号自动步进；
 - 仪表可以设置预警数值（百分比）；
 - 0.8英寸超大数码管显示重量值；
 - 配方号、料号显示；

- 技术参数：
- A/D转换：Δ - Σ 方式，24bit；
 - 输入灵敏度：≥1.5uV/e；
 - 传感器供桥电压：DC+ 5V,可接1~6个350Ω电阻应变式传感器；
 - 传感器连接方式：采用6线式；
 - 重量显示：5位0.8英寸LED数码管；
 - 配方号、料号显示：0.56英寸2位LED数码管显示配方，2位LED数码管显示料号；3个状态指示灯，1个电源指示灯；
 - 大屏幕接口：电流环恒流源输出，600bps；
 - 串行通讯接口：RS232C，波特率1200~9600可选，传输距离≤30米；
 - 数据贮存：配方20个，料号每个配方最多100个；
 - 自动存储记录：最多可以储存146组称重记录（每组最多100个料）
 - 电源：AC110~220V DC 24V（最高32V，最低18V）；
 - 使用环境：-10℃~50℃，≤85%（RH），无冷凝；
 - 仪表外形尺寸：260×180×75（mm）
 - 产品自重：约2.7kg。

Introduction

KL2000D is a weighing indicator dedicated for feed mixing system. Powered by DC supply (DC24V) and with built-in termal micro-printer, it is suitable for the weighing and controlling system of all types of feed making applications.

- Functions and Characteristics:
- Storage of 20 sets of formulas;
 - Each formula can store 100 ingredient numbers;
 - Automatic storage of ingredient weight during feeding;
 - Automatic stepping of ingrediente numbers;
 - Prewarning value (percentage) can be settetd with the indicator;
 - 0.8 inch LED display of weighing value;
 - Display of formula number and ingredient number.

- Technical Parameters:
- A/D Conversion Type: Δ - Σ; 24 bits;
 - Input Sensitivity: ≥1.5uV/e;
 - Aliment Voltage of Load Cell: DC+ 5V. Connection of 1-6 pieces of 350 ohm Strain gauge load cell;
 - Connection Type of Load Cell: 6-wire;
 - Display of Weighing Data: 5-digit 0.8 inch LED display;
 - Display of Formula Number and Ingredient Number: 0.56 inch 2-digit LED display for formula. 2-digit display for ingredient Number. 3 status indicators. 1 power light;
 - Port of Scoreboard: constant current loop output 600bps;
 - Port of Serial Communication: RS232C. Baud rate 1200-9600 optional. Transimission distance ≤ 30 meters;
 - Storage of Datas: 20 formulas and maximum 100 ingredient numbers for Each formula;
 - Autosave record: maximum 146 sets of weighing records (maximum 100 Ingredientes for each set of record);
 - Power Supply: AC110-220V. DC24V (18V to 32V)
 - Working Environment: -10℃~50℃, ≤85%(RH) . No condensation;
 - Outside Dimension of Indicator: 260×180×75(mm);
 - Weight of Product: around 2.7kg.

起重量限制器 Lifting weight limiter

KQC-1 KPX-1 KQC-1A KQC-2DA



产品简介：

KQC-1型起重量限制器仪表采用单片机控制技术，主要功能有：通过接入受力传感器的信号，实时测量并同时显示起吊的重量。当重量到达设定值时，启动声光报警和输出控制信号，切断起升回路电源的功能。

KQC-1A带大屏幕接口（RS232方式）

同类型仪表：KQC-1A,KQC-3,KQC-3A。

KPX-1旁压式限制器主要用于电动葫芦，钢丝绳直吊等起重设备系统上，主要结构由旁压式传感器和控制仪表等组成，当出现超过设定限制起重量时，发出声光报警并控制起吊动作，利用钢丝绳张力侧压原理，安装方便。

同类型仪表：KPX-1L,KPX-1D。

KQC-3DA型起重量限制器具有三传感器组合、三通道输入，可实现分显示分控制。A、B、C路超载时具有报警并切断起重机对应起升回路电源的功能，同时还能显示起吊物体大致重量。控制仪表采用单片机控制，具有重量显示准确，报警动作可靠，调试方便等特点，此外仪表还有设定高低两种分辨率的功能。

同类型仪表：KQC-2DA。

技术参数：

动作误差：≤3%FS

综合显示误差：≤5%FS

预警点：90%FS

延时报警点：105%FS

立即报警点：110%FS

电源：AC380V或AC220V（可选）

Introduction

KQC-1 lifting weight limiter meter adopts single chip-controlled technology. Its main functions are that measuring and indicating the lifting weight timely as connecting the load cell's signal, sending out acoustic-optic alarm, outputting control signal and cutting off the rising looping power supply when weight reaches the stipulated value.

KQC-1A is with scoreboard interface(RS232)

The same type indicators: KQC-1A,KQC-3,KQC-3A

KPX-1 Lateral pressure type limiter is mainly used in electric calabash, steel wire condole etc lift weighing equipment.Main frame buildup from side compression load cell and control indicator, when appear up limited loading, come out sound and light alarm and control start condole to safe direction switch. It is designed based on the side compression of steel wire,and can be assembled easily.

The same type indicators: KPX-1L,KPX-1D.

KQC-3DA Lifting Weighing Limiter indicator has Triple load cells combination, Triple channels input, which could realize separate display and separate control output. When A, B and C road overload, then alarm and cut off the corresponding power of crane hoisting, also can display the roughly weight of the hooking object. It adopts single-chip microcomputer control, with the characteristics of weight display accurate, reliable, and debugging convenient, moreover with the function of two resolution levels setting.

The same type indicator: KQC-2DA.

Technical parameters:

Action error: ≤3%FS

Total display error: ≤5%FS

Warning : 90%FS

Alarm Delay : 105%FS

Immediately Warning : 110%FS

Power Supply: AC380V or AC220V(optional)

起重量限制器 Lifting weight limiter

KQC-C2



产品简介：

超载限制器

KQC-C2仪表功能是实时监测和显示实际载荷，并且当载荷达到其额定载荷的设定值时，发出声光报警信号，并可给出开关量输出。应用场合：施工升降机、吊篮、卷扬机等。

同类型仪表：KQC-C3,KQC-C4,KQC-C5。

技术参数

工作电源：AC220V/50Hz；

综合误差：≤5%F.S.；

预警设置范围：70%–90%；

超载设置范围：95%–130%；

瞬断设置范围：135%–170%；

继电器输出触点容量：5A/250VAC；5A/30VDC；

显示位数：4位；

工作温度：-20℃–60℃；

相对湿度：≤85%RH；

推荐预热时间：≥10min；

Introduction

KQC-C2 indicator is able to display the practical load and real time Monitoring It will give sound/light alarm when the load reaches the pre-setted value and output on/off signal. Application: Construction lift, Suspended platform, windlass.

The same type indicators: KQC-C3,KQC-C4,KQC-C5.

Technical parameters:

Working power supply: AC220V/50Hz;

Total error: ≤5%;

The range of early warning setting: 70%-90%;

The range of overloading setting: 95%-130%;

The range of blinking off setting: 135%-170%;

Relay output contact capacity: 5A/250VAC; 5A/30VDC;

Display digit : 4 digits;

Working temperature -20℃-60℃;

Relative humidity: ≤85%RH;

Recommended pre-warm time: ≥10min

控制仪表 Control indicator

TXJ-A TXJ-A1



产品简介：

塔机力矩限制器

TXJ-A型塔机力矩限制器，适用于各种水平臂式的塔式起重机，防止超过额定力矩状态下运行的一种安全保护装置。本系统占用空间小、安装方便、不需更改原塔机的任何结构、不影响原有的机械式安全装置的使用，起到双重保护的作用。

同类型仪表：TXJ-A1。

技术参数

工作环境温度：-10℃~60℃

工作环境湿度：≤95%(25℃)

电源电压：交流220V±10%

系统综合误差：≤±3%

液晶大屏幕实时显示

声光预警/报警(>80dB)

两路继电器输出

三路模拟量输入

一路串口数据输出

Introduction

TXJ - A type Load Moment limiter for tower crane, which is a safe protection devices applicable to all levels of arm type tower cranes and to prevent over rated torque state operation. This system occupies little space, easy installation, no need to change any of the original tower of the original structure, do not affect the use of mechanical safety device, has dual protections.

The same type instrument: TXJ - A1

Technical parameters:

Working temperature: -10℃~60℃

Relative humidity: ≤95%(25℃æ;

Power supply: AC220V±10%;

Total error of system: ≤±3%;

LCD scoreboard real-time display

Sound-light pre-alarm/alarm (> 80dB)

Two relay outputs

Three analogue inputs

One serial data output

起重量限制器 Lifting weight limiter

DTZK-A1 YLK-02



<< DTZK-A1



<< YLK-02

重量变送器 Weighing transducer

KM04A41 KM04A51



<< KM04A41



<< KM04A51

产品简介:

电梯载荷控制仪

DTZK-A1型载荷(显示)控制仪是各种直升式电梯实现安全运行必不可少的仪器。功能特点为: (1) 安装调试方便: 通过砝码一次标定, 设置轻载, 满载和超载后即可正常使用。(2) 输出: 可提供轻载, 满载和超载的无源触点输出, 设定范围在0%~120%, 同时可以选配0~10V电压或0~10mA、0~20mA电流输出。双屏分别为重量和百分比, 以实现电梯安全运行检测。

同类型仪表: DTZK-A;

技术参数

电源: 直流24V / 交流220V
综合误差: ≤3%
工作温度: -10℃ ~ 60℃
工作湿度: 20% ~ 90%RH
仪器功耗: <8 W
传感器规格: 0.2t ~ 6.0t
传感器灵敏度: 2mV/V

Introduction

DTZK-A1 load control equipment is essential for various elevators for working safely, absolutely necessarily.

Function features:

(1) Convenient installing and debugging, it can work well after setting light load, full load and overload by single calibration with standard weight.

(2) Output: Provide passive contact output of light load, full load and overload. Setting range 0% ~ 120%, optional 0 ~ 10v or 0 ~ 10mA, 0 ~ 20mA. Double screen separately displays weight and percentage for carrying out detecting safe operation .

The same type indicator: DTZK-A

Technical parameter:

Power supply: DC 24v / AC 220V.
Combined error: ≤3%
Application temperature: -10℃ ~ 60℃
Application Humidity: 20% ~ 90% (RH)
Power: < 8W
Capacity of load cell: 0.2t ~ 6.0t
Sensitivity: 2.0mv/v
Size: 120x100x75mm.

产品简介:

装载机称重仪表

YLK-02型装载机称重仪表, 该称重仪能实现装载过程中对货物的自动准确计量, 便于加强装载作业管理, 防止超载和欠载, 提高装卸作业效率和效益, 保证车辆运输的安全性。

功能特点:

宽屏幕液晶显示和打印功能

动态称重、自动累计、自动存储

全自动角度补偿

超载报警

RS232数字通讯

输入电源DC12~36V

技术参数

输入信号范围: 0 —— 30mV

A/D转换分辨率: 50万码

精度: ≤ ± 5%

Introduction

YLK-02 type loader weighing indicator, can be used for automatic measurement with high accuracy. With this indicator, you can enhance the managing level of loading cargoes, avoid overload and underload, enhance the efficiency and profit of unload, and guarantee the safety of Transportation.

Function features:

- 1、Wide-screen liquid crystal display and printing
- 2、Weighing in motion, automatic acculation, automatic store
- 3、Automatic angle compensation
- 4、Automatic alarm of overload
- 5、RS232 digital communication port
- 6、Powersupply inputted: DC12-36V

Technical parameter:

Range for input signal: 0 —— 30mV
A/D conversion resolution: 500,000
Accuracy: ≤ ± 5%

KM04A41是单路模拟输入、双路4~20mA输出的外置式重量变送器; KM04A51是单路模拟量输入、单路4~20mA输出的外置式重量变送器。变送器标定需通过专用标定仪表进行。

KM04A41 is an odd analogic input and double signals 4~20mA outputs of the external Weighing transducer.

KM04A51 is an odd analogic input and odd 4~20mA output of the external Weighing transducer. NOTE: Using the special indicator to calibrate the weighing transducer.

KM04A41重量变送器

- 数据刷新速率: ≥25 次/秒
- 准确度等级: 0.1级
- 输出信号: 4~20mA (双路)
- 输入电源电压: 15 ~ 24V DC
- 传感器激励电源: 5V DC
- 传感器灵敏度范围: 0.75 ~ 3.5 mV/V
- 输出端开路电压: 12.5 ± 0.5 VDC
- 零点温度漂移: < ± 0.1/10℃/%FS
- 量程温度漂移: < 100 × 10⁻⁶/℃
- 负载阻抗: < 500 Ω
- 使用温度范围: -20℃ ~ 60℃
- 存储温度范围: -40℃ ~ 85℃
- 电源电压具有反接保护功能, 反向保护电压不大于40V。

KM04A41 Weighing Transducer

Data Refurbish Rate: ≥25 times/Second
Accurate Class: 0.1 class Output Signal 4~20mA
(Double signals)
Power supply: 15 ~ 24V DC
Load Cell Excitation Power: 5V DC
Load Cell Sensitivity: 0.75~3.5 mV/V
Fan-out Power supply: 12.5±0.5 VDC
Zero Temperature Drift: < ± 0.1/10℃/%FS
Capacity Temperature drift: < 100 × 10⁻⁶/℃
Load resistance: < 500 Ω
Operation Temperature: -20℃ ~ 60℃
Storage Temperature: -40℃ ~ 85℃
The power supply has reserve protection with less than 40V.

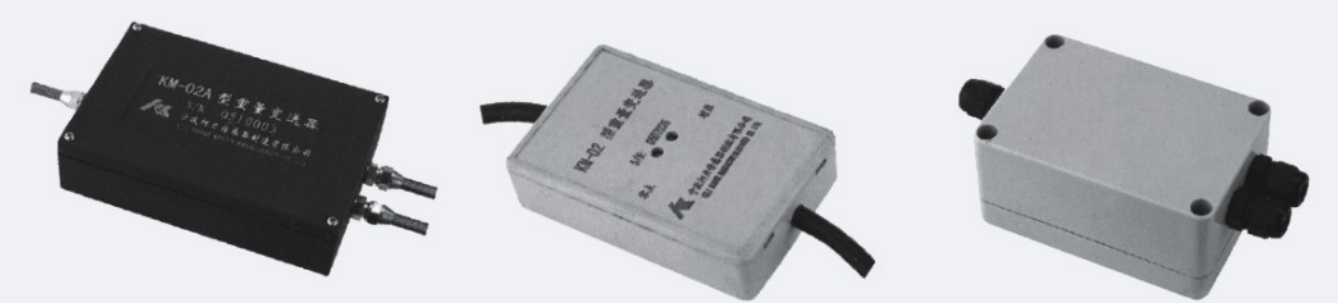
KM04A51重量变送器

- 数据刷新速率: ≥25 次/秒
- 准确度等级: 0.1级
- 输出信号: 4~20mA (单路)
- 输入电源电压: 17 ~ 36V DC
- 传感器激励电源: 5V DC
- 传感器灵敏度范围: 0.75 ~ 3.5 mV/V
- 输出端开路电压: 12.5 ± 0.5 VDC
- 零点温度漂移: < ± 0.1/10℃/%FS
- 量程温度漂移: < 100 × 10⁻⁶/℃
- 负载阻抗: < 500 Ω
- 使用温度范围: -20℃ ~ 60℃
- 存储温度范围: -40℃ ~ 85℃
- 电源电压具有反接保护功能, 反向保护电压不大于40V。

KM04A51 Weighing Transducer

Data Refurbish Rate: ≥25 times/Second
Accurate Class: 0.1 Class
Output Signal: 4~20mA(Single signal)
Power supply: 17 ~ 36V DC
Load Cell Excitation Power: 5V DC
Load Cell Sensitivity: 0.75 ~ 3.5 mV/V
Fan-out Power supply: 12.5 ± 0.5 VDC
Zero Temperature Drift: < ± 0.1/10℃/%FS
Capacity Temperature drift: < 100 × 10⁻⁶/℃
Load resistance: < 500 Ω
Operation Temperature: -20℃ ~ 60℃
Storage Temperature: -40℃ ~ 85℃
The power supply has reserve protection with less than 40V.

KM02型系列



<< KM02型系列

产品简介：

KM02系列重量变送器采用精密仪表放大器，将模拟传感器的微弱信号进行放大输出，使用电位器可以方便的调整输出偏移与放大倍数。

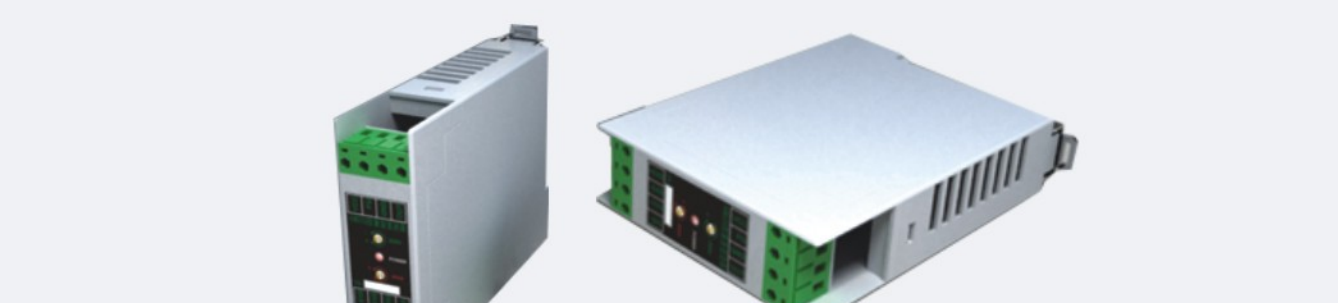
选型参考表

型号	输出信号		电源	外形尺寸（mm）	特点与适用范围
	电压（V）	电流（mA）			
KM02	0~5 0~10		DC 15~24V	69×44×18(塑壳)	1、接1只模拟传感器；2、适用于工业过程控制，纺织行业张力控制。
KM02A	0~5 0~10	0~20 4~20	DC 15~24V	180×120×45(铸铝)	1、可接1~2只模拟传感器；2、适用于工业过程控制及煤矿税控计量系统。
KM02A+	0~5 0~10	0~20 4~20	DC 15~24V	180×120×45(铸铝)	1、可接1~2只模拟传感器；2、适用于工业过程控制及煤矿税控计量系统。3、主辅两路输出，辅助通道可以连接方向传感器。
KM02A2		4~20	DC 15~24V	110×80×45(铸铝)	接1只模拟传感器；专用集成电路，具有限流保护适用于工业过程控制。
KM02C	1~10		DC 15~24V	无外壳	与传感器连成一体。适用于工业过程控制
KM02C1	0~10		DC 15~24V	无外壳	内置于传感器；两级放大电路，适用纺织行业张力控制。
KM02C2		4~20	DC 15~24V	无外壳	与传感器连成一体。适用于工业过程控制
KM02C3	0~5 0~10		DC 15~24V	64×58×35(塑壳)	接1只模拟传感器，5V供桥，驱动微型传感器；两级放大电路，适用于工业过程控制。
KM02H	0~5 0~10		DC 15~24V	64×58×35(塑壳)	接1只模拟传感器；两级放大电路，适用于工业过程控制。
KM02H1		4~20	DC 15~24V	64×58×35(塑壳)	接1只模拟传感器；专用集成电路，具有限流保护适用于工业过程控制。
KM02G	0~5 0~10		DC 18~24V	112×82×25(塑壳)	标准DIN35导轨安装，接1只模拟传感器；两级放大电路，适用于工业过程控制。
KM02GA		4~20	DC 15~24V	112×82×25(塑壳)	标准DIN35导轨安装，接1只模拟传感器；专用集成电路，适用于工业过程控制。

Selection Reference:

model	output signal		Power supply	size（mm）	Characteristic and application range
	Voltage（V）	Current（mA）			
KM02	0~5 0~10		DC 15~24V	69×44×18 (plastic housing)	1、Connect 1 piece analog load cell；2、Be applied to industrial process control, tension control in textile industry.
KM02A	0~5 0~10	0~20 4~20	DC 15~24V	180×120×45 (cast aluminum)	1、Connect 1 to 2pcs analog load cell；2、Be applied to industrial process control and tax measuring system in mines.
KM02A+	0~5 0~10	0~20 4~20	DC 15~24V	180×120×45 (cast aluminum)	1、Connect 1 to 2pcs analog load cell；2、Be applied to industrial process control and tax measuring system in mines.3、Output by major and auxiliary channels. Auxiliary channel could be connected with direction load cell.
KM02A2		4~20	DC 15~24V	110×80×45 (cast aluminum)	Connect 1 piece analog load cell；Special integrated circuit with limited current protection function is suitable for industrial process control.
KM02C	0~10		DC 15~24V	No cover	Integrative with load cell. Be applied to industrial process control.
KM02C1	1~10		DC 15~24V	No cover	Enclosed in load cell; 2 classes amplifying circuit, applied to tension control in textile industry.
KM02C2		4~20	DC 15~24V	No cover	Integrative with load cell, be applied to industrial process control.
KM02C3	0~5 0~10		DC 15~24V	64×58×35 (plastic housing)	Connect 1 piece analog load cell；5V bridge voltage，driving mini-load cell；2 classes amplifying circuit, applied to industrial process control
KM02H	0~5 0~10		DC 15~24V	64×58×35 (plastic housing)	Connect 1 piece analog load cell；2 classes amplifying circuit, applied to industrial process control.
KM02H1		4~20	DC 15~24V	64×58×35 (plastic housing)	Connect 1 piece analog load cell；Special integrated circuit with limited current protection, suitable for industrial process control.
KM02G	0~5 0~10		DC 18~24V	112×82×25 (plastic housing)	Equipped with standard DIN35 guide way，Connect 1 piece analog load cell；2 classes amplifying circuit, applied to industrial process control
KM02GA		4~20	DC 15~24V	112×82×25 (plastic housing)	Equipped with standard DIN35 guide way，Connect 1 piece analog load cell；Special integrated circuit, applied to industrial process control.

KM02G / GA



<< KM02G/GA

产品简介：

KM02G/GA 采用导轨式外壳，选用高精度工业仪表放大器，调试简单、方便，可用于各种工业控制领域。

产品特点

线性好、温度特性好，转换精度高性能稳定（0.5%）
带电源指示灯,带零点和满度调整
标准DIN35导轨安装，装卸方便,适合密集安装、

KM02G 技术参数

可接收传感器灵敏度范围:1mV/V~3mV /V
传感器激励电压:12VDC
传感器驱动能力:100mA. (可以驱动3只传感器)
零点调整能力:≤25%FS
增益调整:300倍~1000倍
模拟输出:0~10VDC
精度:0.5%
工作温度范围:-20oC/+50oC
电源供应:18~24VDC 带反相以及过压保护.
标准安装方式:标准35mm DIN轨安装.

KM02GA 技术参数

可接收传感器灵敏度范围:1mV/V~2mV /V
传感器激励电压:10VDC
传感器驱动能力:最多可驱动3只传感器
零点调整能力:10%FS
增益调整:100倍~500倍
模拟输出:4~20mA
精度:0.2%
电源供应:15~24VDC 带反相以及过压保护

Introduction

KM02G/GA adopts the rail-type housing and selects the high-precision industrial indicator amplifier, with simple and convenient debugging, can be used for a variety of industrial control fields.

Features

Good linearity and temperature characteristics, the conversion accuracy of high-performance stability (0.5%)
With power indicator light, with zero and full scale adjustment
Standard DIN35 rail installation, conveniently loading and unloading suitable for intensive installation

KM02G Technical parameters

Receivable range of load cell sensitivity which can be received: 1mV / V ~ 3mV / V
Load cell excitation voltage: 12VDC
Load cell drive capability: 100mA. (can be parallely connect 3 load cells with 350 ohm)
ability to adjust zero:≤ 25% FS
Plus adjustment: 300 ~ 1000 times
Analog output: 0-10VDC
Accuracy: 0.5%
Operating temperature range:-20 oC / +50oC
Power Supply: 18-24VDC with RP, and over-voltage protection.
Standard installation method: standard 35mm DIN rail installation.

KM02GA Technical parameters

Receivable range of load cell sensitivity : 1mV / V ~ 2mV / V
Load cell excitation voltage: 10VDC
Load cell drive capability: can drive 2 load cells
Ability to adjust zero: 10% FS
Plus adjustment: 100 ~ 500 times
Analog output: 4-20mA
Accuracy: 0.2%
Power Supply: 15-24VDC with RP, and over-voltage protection.

KH系列数显推拉力计 KH series digital push pull force gauge



简介:

Kh系列数显推拉力计是集成推力和拉力测试双重功能的小型简便仪器。具有测试方向显示、背光灯、上下限偏差值设定判断、红绿指示灯报警设置功能；可存储10组测试数据，自动计算存储数据的平均值；三种单位N、kgf、lbf自动互换；独具测试峰值保持、测试中第一峰值保持、峰值自动解除及解除时间自由设定功能；无操作自动关机的省电设计，关机时间自由设定；串口（RS-232C）输出，可打印10组存储的测试数据和最大值、最小值、平均值、合格或不合格值判断。具有高精度、易操作、便携带之特点。拉、压负荷峰值指示及连续力值指示。适用于电线电缆、电子电器及电路板、五金机电、航空、电力、电磁机械、汽车配件、轻工纺织、粘胶化工、煤炭、建筑土木、家具、塑胶塑编、弹簧制造、医疗器械、电梯、印刷包装、工业玩具及塑料、打火机及点火装置、消防器材、拉链纽扣、锁具、笔业、剃须刀业、渔具、动力机械、科研机构等行业推拉负荷测试。

General description

KH series digital push pull force gauge is a simple measuring apparatus, which integrates two functions of measuring push force and pull force. The force gauge has blue back-ground light lamp, it can display direction of force. The gauge also has pilot lamp and bizz alarm to show the upper and lower limit. This gauge can memorize 10 test data, it will automatically calculate out the average of memorized data. It has three units as N, kgf, lbf, which can be converted automatically. It specially has the functions of holding peak, holding the first peak value, automatically removing peak value and freely setting removing time. This gauge has non-operation automatic power off design, you can freely set the power off time by yourself. RS-232C series provides output to printer, it can print out 10 groups of memorized test data, maximum value, minimum value, average value, diagnoses of qualified and unqualified value. This gauge has functions of high accuracy,high resolution and portable, which can be used as instruction of peak value of pull push force and continuous force. It is suitable for industries related with pull and push force testing such as cables , electric equipment,hardware, aviation, power force, electromagnetism, auto parts, textile, pectic chemical, coal, building, furniture, plastic, spring manufacturing. medical appliances, elevator, printing &packing, lighter & ignition set, fire fighting appliances, zip & button, locker, pen, shave, fishing, motivity mechanical, scientific research institution and etc.

主要特点

- ◎手持与夹持式设计，体积小，操作简单，并可结合简易工装或夹具安装于各种试验、测力机使用；
- ◎传感器内置、外置可依实际需要自由选配；
- ◎全数字显示，读数方便，具有高精度、高分辨率；
- ◎峰值保持功能和连续荷重指示自由切换；
- ◎三种单位变换：可换N、kgf、lbf三种计测单位，并自动换算；
- ◎自动关机功能：环保省电及保护本机设计，关机时间（0-99分钟）自由设定；
- ◎铝制壳体，耐压、耐磨、耐轻撞，同时具有良好的屏蔽抗干扰能力；

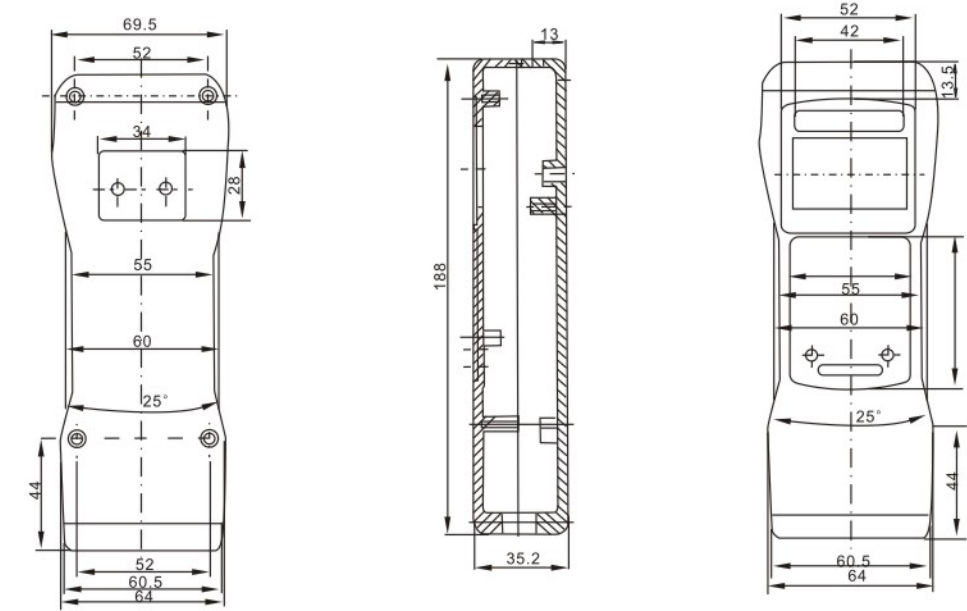
Characteristic

- ◎It is with compact size, easy to operate, handy to carry out. Also it can be used in various tester, force measuring machine when combined with simple fixture.
- ◎You can select to put load cell inside or outside as you need.
- ◎Digital display,readable,high accuracy, high identification.
- ◎ With function of holding peak, freely exchanging instructions continuous load.
- ◎It can automatically convert among three measuring units such as N, kgf, lbf.
- ◎ It has function of automatically power off, which is designed fo environment protection, power saving and gauge protection. You can set time of power off from 0 to 99 mins by yourself.
- ◎ Aluminium inclosure is with function of pressure durable. wear proof shocking proof and well shielding.

规格参数 Specifications

型号Item No.	KH-10	KH-20	KH-50	KH-100	KH-200	KH-500
最大试验负荷 Max testing load	10N	20N	50N	100N	200N	500N
负荷分度值 Load division value	0.005N	0.01N	0.01N	0.05N	0.1N	0.1N
传感器安装方式 Load cell installation	传感器内置/或外置可选 load cell inside or outside					
相对示值误差 Relative value error	±0.5%					

外型尺寸 Specifications



可以匹配的传感器结构推荐如下 Suggest to use load cell as bellow

- I .XSCB/XSGB(适配同类其他产品)
- II . XSGC(it is suitable for KH series gauge)