天康集团

2018年版

物位计选型样本

MATERIAL LEVEL METER

PRODUCT SELECTION CATALOGUE

安徽天康（集团）股份有限公司

ANHUI TIANKANG(GROUP) SHARES CO.,LTD

企业介绍
company profile



安徽天康（集团）股份有限公司创建于1974年，总部位于“长三角”经济圈核心区域—天长市，是中国民营企业制造业500强企业、中国电子信息百强企业、国家级守合同重信用企业、国家高新技术企业、安徽省依法纳税先进企业、银行资信AAA级企业、中国仪表行业十强企业、中国电线电缆十强企业、安徽省重点骨干企业、“全国五一劳动奖状”获得者等荣誉。

天康集团历经四十年的蓬勃发展，已形成集仪器仪表、光电缆、医疗卫生、锂电池等跨行业、多元化的集团公司，下属子公司达二十余家。旗下产品凭借良好的质量与服务，被广泛应用于石油、电力、化工、通讯、卫生、新能源汽车及储能等行业和领域。其自主研发、生产的纳米钛酸锂动力/储能电池产品属国家重点新产品。经业内专家评定，达到国内领先、国际先进水平。

作为皖东经济最具活力与贡献的骨干企业之一，天康集团以“追求卓越，缔造满意”为目标，依托一流的产品、一流的管理、一流的服务，不仅在国内市场中赢得了广泛赞誉；在国际市场中，天康产品远销欧洲、非洲、亚洲等46个国家和地区。

天康集团在发展中逐步形成了独特的品牌文化及着眼全球的经营布局，全力塑造“高科技、高品质、国际化”的品牌形象。始终秉承“有跨越才有卓越”的天康精神，在创建和谐企业的基础上，引进国际先进的构架与模式，组织企业的生产经营管理体系。在积极参与国际化竞争的基础上，不断把握市场发展脉搏，寻求经济战略联盟，与全球伙伴共同发展与进步。如今天康人将全新的投入化为无私的奉献，与世界共同发展，与人类一起进步。

竭诚为客户提供一流的产品和至上的服务

Wholeheartedly Provide Customers With First-class Products and Service



Anhui Tiankang (Group) Co., Ltd. created in 1974, the headquarters is located in the "Yangtze River Delta" economic circle core area - Tianchang City, is China's private enterprises in the manufacturing industry 500 strong enterprises, China's electronic information hundred enterprises, state-level keep contract re credit enterprise, national new and high technology enterprise, Anhui Province tax law advanced enterprises, bank credit AAA level enterprise, China instrument industry ten strong enterprises, top ten enterprises in the Chinese wire and cable, Anhui province key enterprises, "national labor certificate" get "and other honorary.

After forty years of vigorous development, the group has formed a set of instruments, optical cable, medical and health, lithium batteries, such as cross industry, diversified group companies, subsidiaries of more than twenty. Products with good quality and service, is widely used in oil, electricity, chemicals, communications, health, new energy vehicles and energy storage and other industries and areas. Its independent research and development, production of nano lithium titanate power / energy storage battery products are national key new products. By industry experts, to achieve the domestic leading and international advanced level.

As one of the backbone enterprises in Anhui east economy the most vitality and contribution, tecon group to "the pursuit of excellence, creating satisfaction" as the goal, relying on the first-class products, first-class management, first-class service, not only in the domestic market won wide acclaim; in the internationalmarket, the day Kang products are exported to 46 countries and regions, including Europe, Africa, and Asia.

TianKang group in the developing gradually formed a unique brand culture and focus on global business department bureau, spare no effort to shape the brand image of "high-tech, high-quality, internationalization". Always adhering to the "excellence," the spirit of Tiankang across only, to create the basis for a harmonious enterprise, the introduction of international advanced framework and patterns, organization of production management system. Actively participate in the international competition, and continue to grasp the pulse of the market development, to seek economic and strategic alliances, and global partners to develop and progress. Such as today, the people will be a new investment into the selfless dedication, and the common development of the world, together with the progress of mankind.

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TKWL-1600系列超声波物位计

TKWL-1600 Ultrasonic level meter

一、概述

超声波物位计（测量料位，液位），是一种非接触式、高可靠性、高性价比、易安装维护的物位测量仪器。它不必接触介质就能满足大部分物位测量要求，是我们公司经过多年努力开发，拥有完全自主产权的新一代超声波物位计。

Summary

Ultrasonic level meter (measure material level and liquid level) is a non-contact measuring device for material level with high reliability, high cost performance and easy installation and maintenance. It can meet most of requirements for material level measuring without contacting medium, which is a new generation ultrasonic level meter of our company with completely independent property right after years of hardworking and development.

二、产品介绍

Introduction of products



TKWL-1600 一体式
TKWL-1600 integrated model



TKWL-1600 分体式
TKWL-1600 split model



TKWL-1600一体式防爆式
TKWL-1600 integrated explosion proof model

三、技术参数

Technical parameters

功 能 Functions	一体式 Integrated Model	分体式 Split model
量 程 Measuring range	5米、10米、15米、20米、30米 5m、10m、15m、20m、30m	5米、10米、15米、20米、30米 5m、10m、15m、20m、30m
精 度 Accuracy	0.5%~1.0%	0.5%~1.0%
分辨率 Resolution	3mm或0.1%(取大者) 3mm or 0.1% (choose the bigger)	3mm或0.1%(取大者) 3mm or 0.1% (choose the bigger)
显 示 Display	中文液晶显示 LCD in Chinese	中文液晶显示 LCD in Chinese
模拟输出 Analog output	4线制4～20mA/510Ω负载 4 wire system 4～20mA/510Ω loading 2线制4～20mA/250Ω负载 2 wire system 4～20mA/250Ω loading	4～20mA/510Ω负载 4～20mA/510Ω loading
继电器输出 Relay output	可选配2组AC 250V/ 8A或DC 30V/ 5A 状态可编程 2 sets of AC 250V/ 8A or DC 30V/ 5A are optional, state is programmable	(可选配）单通道为2组，双通道是4组AC 250V/ 8A或DC 30V/ 5A 状态可编程 2 sets of single channel are (optional), the double channel is 4 sets of AC 250V/ 8A or DC 30V/ 5A, state is programmable
供 电 Power supply	标配24VDC Standard: 24VDC 可选 220V AC+15% 50Hz Optional: 220V AC+15% 50Hz	标配220V AC+15% 50Hz Standard: 220V AC+15% 50Hz 可选24VDC 120mA Optional: 24VDC 120m 定做12VDC或电池供电 Customized 12VDC or battery powered
环境温度 Environmental temperature	显示仪表-20～+60℃ Meter display -20～+60℃ 探头-20～+80℃ Probe -20～+80℃	显示仪表-20～+60℃ Meter display -20～+60℃ 探头-20～+80℃ Probe -20～+80℃
通 信 Communication	可选485，232通信（厂家协议） Optional 485, 232 communication (manufacturer agreement)	可选485，232通信（厂家协议） Optional 485, 232 communication (manufacturer agreement)
防护等级 Protection class	显示仪表IP65，探头IP68 Display meter IP65, Probe Ip68	显示仪表IP65，探头IP68 Display meter IP65, Probe Ip68
探头电缆 Probe cable	无 No	可达100米，标配10米 100m reachable, standard 10m
探头安装 Probe installation	根据量程和探头的选型 Selection based on measuring range and probe	根据量程和探头的选型 Selection based on measuring range and probe

四、产品选型　　Product Selection

TKWL-1600			
	01	结构型式及材料 Structure and material	
	FX	新的分体式壳体ABS材质 New split shell in ABS material	
	FL	分体式增强型，铸铝材质 Strengthened split model in cast aluminum material	
	SK	一体式普通型（最大量程10米，只有4～20mA输出，不带继电器，不带485通信） Integrated ordinary type (max measuring range 10m, with output of 4-20ma only, without relay and without 485 communication)	
量程 Measuring range			
	02	具体的量程，用两位数表示，例如：05表示5米，30表示30米。 Specific measuring range, expressed with two digits, such as 05 represents 5 meters and 30 represents 30 meters	
传感器外壳 Sensor shell			
	A	ABS做传感器外壳 Sensor shell in ABS material	
	F	聚四氟乙烯做传感器外壳 Sensor shell in PTFE material	
	T	特殊材质做传感器外壳 Sensor shell in special material	
传感器的安装尺寸 Installation dimensions of sensor			
	A	Screw thread螺纹M48×2mm	
	B	Screw thread螺纹M66×2mm	
	C	Screw thread螺纹M78×2mm	
	D	Screw thread螺纹M108×2mm	
	E	Screw thread螺纹G1-1/2A Big diameter大径：Φ47.8m	
	F	Screw thread螺纹G2A Big diameter大径：Φ59.6mm	
	G	Screw thread螺纹1-1/2"NPT Big diameter大径：Φ48.1mm	
	H	Screw thread螺纹2"NPT Big diameter大径：Φ60.1mm	
	T	特殊规格型 special specifications	
安装方式 installation method			
	N	不是法兰安装 installed not with flange	
	C	DN50法兰 Flange	
	D	DN65法兰 Flange	
	E	DN80法兰 Flange	
	F	DN100法兰 Flange	
	G	DN125法兰 Flange	
	H	DN150法兰flange	
	I	DN200法兰flange	

	~	加长型探头螺纹长度 Length of screw thread of lengthened probe
	~	空白表示是标准探头，可以不写 Blank refers to standard probe, can not write
	100	含螺纹长度是100毫米 Indicate the length of probe with screw thread is 100mm
	~	
	999	表示探头含螺纹长度是999毫米 Indicate the length of probe with screw thread is 999 mm
	~	电源、防爆种类 Types of power and explosion proof

	DCSP	特殊供电12VDC、9VDC Special power supply 12VDC、9VDC
	DC	4线制直流供电非防爆24VDC Four-wire DC power supply without explosion resistance 24VDC
	AC	4线制交流供电非防爆220VAC Four-wire AC power supply without explosion resistance 220VAC
	TC	2线制直流供电非防爆24VDC Two-wire DC power supply without explosion resistance 24VDC
	TCIA	2线制直流供电本安防爆型24VDC Two-wire DC power supply intrinsically safe explosion resistance model 24VDC
	TCDD	2线制直流供电隔离防爆型24VDC Two-wire DC power supply isolating explosion resistance model 24VDC
	DCIA	4线制直流供电本安防爆型24VDC Four-wire DC power supply intrinsically safe explosion resistance model 24VDC
	DCDD	4线制直流供电隔离防爆型24VDC Four-wire DC power supply isolating explosion resistance model 24VDC

继电器数量 Quantity of relay		
	R0	没有继电器 Without relay
	R1	1个继电器 One relay
	R2	2个继电器 Two relays
	R3	3个继电器 Three relays
	R4	4个继电器 Four relays

输出信号 Output signal		
	MA	4～20ma
	C2	232通讯 Communication
	C4	485通讯 Communication
	C2MA	4～20ma+232通讯 Communication
	C4MA	4～20ma+485通讯 Communication
	HTMA	4～20ma+HART通讯 Communication
	RJ	RJ45网卡接口 network interface
	TS	特殊输出信号 special output signal

变送器外壳材质 Transmitter shell material		
	PL	ABS塑料壳体 ABS plastic shell
	AI	铸铝壳体 Cast aluminum shell
	13	传感器电缆长度，00就是无配套电缆 Length of sensor cable, 00 indicates withou
	01	传感器电缆01米 Sensor cable 01 meter
	~	
	20	传感器电缆20米 Sensor cable 20 meters