

WS-150型数显温度计

WS-150 digital thermometer

用途说明 Application Description

WS-150型数显温度计采用全新测温IC搭配进口感温元件，测温准确度高、速度快、范围广。广泛应用于工业生产过程及各种仓储、冷库、养殖环境的温度测量。它与普通温度计、压力式、双金属温度计相比具有精度高、显示清晰、读数直观、安装方便、寿命长等特点。

WS-150 digital thermometer are using new temperature testing IC match with imported thermal components, has the character of high accuracy, fast speed, wide scale of temperature measurement. It is widely used in the temperature measurement of storage, cold storage, aquaculture environment and industrial production process. Compare with common thermometer and bi-metal thermometer, the digital thermometer have the advantage of high accuracy, clear display, easy mounting, long life etc.



技术参数 Technical Parameters

外形尺寸 Dimension	φ150x50mm
精度等级 Accuracy class	±1.0%
分辨率 Image resolution	200℃ 以下为0.1以上为1.0℃以下显示为负号 Below 200℃ is 0.1℃ and display by minus, above 200℃ is 1.0℃.
显示方式 Display	3.5位液晶显示 3.5 LCD
工作环境 Working environment	温度0-40℃ 湿度≤70% Temperature:0-40℃ Humidity≤70%
电源 Power	AAA 1.5V
绝缘电阻 Dielectric resistance	≥20M
绝缘强度 Dielectric strength	50HZ 2000V 正弦电压1分钟不击穿 50Hz 2000V sinusoidal voltage will not be broken down within one minute
传感器保护管耐压 Pressure resistance of sensor protective tube	不锈钢6MPa Stainless steel 6MPa

WSSN-BF系列抗震不锈钢双金属温度计

WSSN-BF shock resistance bi-metal thermometer



用途说明 Application Description

WSSN-BF系列抗震不锈钢双金属温度计是一种现场检测工业仪表，可直接从读数盘上读出被测气体、液体和蒸汽中的温度。广泛适用于石油，化工、矿井、冶金、纺织、军工、制药、食品等部门中环境剧烈抖动的现场气体或液体温度的测量和控制。本系列产品具有反应灵敏、易读数、抗振动、无汞害、性能稳定、使用寿命长、外壳防护等级达到IP65等优点。

WSSN-BF Shock resistance bi-metal thermometer is a kind of on-site measurement instrument, which could read the temperature of the measuring medium from the dial directly. It is widely used in oil industry, chemical industry, mine, war industry, pharmacy, food industry, etc. to measure and control the temperature of vibrated gas and liquid.

It has advantages of rapid-response, easy reading, shock resistance, mercury-free, stability, long life, high protection level of Ip65.

主要技术指标 Main Technical Data

型号 Model	WSSN63-BF WSSN100-BF WSSN150-BF
测量范围 Scale range	-20-80°C; -40-80°C; 0-50°C; 0-100°C; 0-150°C; 0-160°C
外径 Diameter	63mm 100mm 150mm
杆长 Stem length	64mm 80mm 100mm 150mm
压力单位 Pressure unit	华氏度, 摄氏度 Fahrenheit or centigrade degree
精度 Accuracy class	1.5% 2.5% cl.1.5 cl.2.5
壳体材料 Case	不锈钢 stainless steel
测温杆材料 Stem	不锈钢 stainless steel
内部结构 Inner construction	不锈钢 stainless steel
安装方式 Mounting pattern	径向, 轴向, 万向 bottom, back, universal
螺纹 Connection thread	G1/2; M27*2



YWK-50-C 型系列压力控制器

YWK-50-C series pressure controller

用途说明 Application Description

用于船舶、冷冻设备或其它工业设备与执行机构配套，对气体、蒸气或液体的压力进行二位式控制。

YWK-50 型为酚醛粉壳体普通型，YWK-50-C 型为铸铝壳体，防水型，能经受GB5010-35所规定的机构振动条件。

It applies to shipping, and freezing equipment, or other industrial equipment. If the product is combined with actuating mechanism, it can conduct the two-location type to control to the temperature of gas, steam or liquid.

Type YWK-50 product is the normal type with bakelite case. Type YWK-50-C product is the waterproof type with cast aluminium case. Both of them can stand for the mechanical vibration of GB5010-35.



YWK-50-C



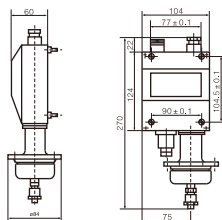
YWK-50

主要技术指标 Main Technical Data

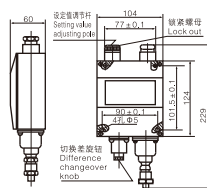
序号 No.	设定值调节范围 Control range Mpa	切换差调节范围 Differential range Mpa	设定值误差 Setting value error Mpa	重复性误差 Iterative error Mpa	备注
1	-0.1~0	0.0065~0.026	±0.004	0.002	同6-11备注栏 Same as 6-11
2	0~0.1	0.006~0.028	±0.004	0.002	被控介质对黄铜、锡青铜、铅锡焊料无腐蚀性作用 Medium controlled has no corrosive influence on welding materials which made up of brass or bronze or aluminous stannum
3	0~0.2	0.01~0.08	±0.008	0.004	
4	0~0.3	0.025~0.1	±0.012	0.006	
5	0~0.5	0.03~0.1	±0.02	0.01	
6	0~0.8	0.07~0.25	±0.032	0.016	
7	0~1	0.07~0.25	±0.04	0.02	被控介质对黄铜1Cr18Ni9Ti 不锈钢锡铅焊料无腐蚀性作用 Medium controlled has no corrosive influence on welding materials which made up of brass or 1Cr18Ni9Ti or stainless steel or aluminous stannum
8	0~1.5	0.1~0.28	±0.06	0.03	
9	0~2	0.12~0.3	±0.08	0.04	
10	0~3	0.15~0.5	±0.12	0.06	
11	0~4	0.25~0.6	±0.16	0.08	

外形尺寸 Dimension

单位(Unit): mm



序号1.2 规格的压力控制器
Code 1.2 specification pressure controller



序号3~11规格的压力控制器
Code 3~11 specification pressure controller

YWK-50-C 型系列压力控制器

YWK-50-C series pressure controller

用途说明 Application Description

用于船舶、冷冻设备或其它工业设备与执行机构配套，对气体、蒸气或液体的压力进行二位式控制。

YWK-50 型为酚醛粉壳体普通型，YWK-50-C 型为铸铝壳体，防水型，能经受GB5010-35所规定的机构振动条件。

It applies to shipping, and freezing equipment, or other industrial equipment. If the product is combined with actuating mechanism, it can conduct the two-location type to control to the temperature of gas, steam or liquid.

Type YWK-50 product is the normal type with bakelite case. Type YWK-50-C product is the waterproof type with cast aluminium case. Both of them can stand for the mechanical vibration of GB5010-35.



YWK-50-C



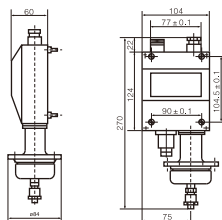
YWK-50

主要技术指标 Main Technical Data

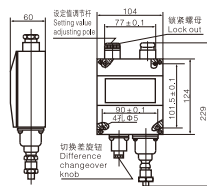
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2	0~0.1	0.006~0.028	±0.004	0.002	被控介质对黄铜、锡青铜、铅锡焊料无腐蚀性作用 Medium controlled has no corrosive influence on welding materials which made up of brass or bronze or aluminous stannum
3	0~0.2	0.01~0.08	±0.008	0.004	
4	0~0.3	0.025~0.1	±0.012	0.006	
5	0~0.5	0.03~0.1	±0.02	0.01	
6	0~0.8	0.07~0.25	±0.032	0.016	
7	0~1	0.07~0.25	±0.04	0.02	被控介质对黄铜1Cr18Ni9Ti 不锈钢锡铅焊料无腐蚀性作用 Medium controlled has no corrosive influence on welding materials which made up of brass or 1Cr18Ni9Ti or stainless steel or aluminous stannum
8	0~1.5	0.1~0.28	±0.06	0.03	
9	0~2	0.12~0.3	±0.08	0.04	
10	0~3	0.15~0.5	±0.12	0.06	
11	0~4	0.25~0.6	±0.16	0.08	

外形尺寸 Dimension

单位(Unit): mm



序号1.2 规格的压力控制器
Code 1.2 specification pressure controller



序号3~11规格的压力控制器
Code 3~11 specification pressure controller

WTZK-50-C 型系列压力温度控制器

WTZK-50-C type series pressure temperature controller

用途说明 Application Description

压力温度控制器是一种随着温度升降而使电路闭合或断开的电开关，用于船舶、机车、冷冻设备或其他工业设备与执行机构配套，对气体、蒸汽或液体的温度进行两位式控制，它具有一定的温度调节范围(参阅基本参数)，并附有差动调节装置，用户可根据需要在其中选择被控制温度值和适当的差动值。

It is a shutter which could make the circuit close or open when the temperature down or up. It is used in vessel engine, freezing equipment or others industrial equipment and suitable for the executing parts, it can control the pressure of gas, steam or liquid in binary ways, it has the stand adjustable temperature range (see the base data), and with a differential regulator, the user can select any temperature data or gap if he want.



WTZK-50-C

主要技术指标 Main Technical Data

序号 NO.	温度调节范围 Temperature adjustment range	差动调节范围 Differential adjustment range	允许指示误差 Allowed indicating error	允许动作误差 Allowed action error
1	-60~-30	3-5	±4	2
2	-40~-10	3-5	±2	2
3	-25~0	3-5	±2	2
4	-15~15	3-5	±2	2
5	10~40	3-5	±2	2
6	40~80	3-5	±2	2
7	60~100	3-5	±3	3
8	80~120	3-5	±3	3
9	110~150	3-5	±3	3
10	130~170	3-5	±3	3

WTZ、WTQ 系列压力式温度计

WTZ, WTQ series pressure thermometer

用途说明 Application Description

压力式温度计适用于工业场合测量各种对铜无腐蚀性作用介质温度，若介质有腐蚀作用应选用防腐型。该仪表广泛用于机械、轻纺、化工、制药、食品行业对生产过程中的温度测量和控制。防腐型采用全不锈钢材料，适用于中性腐蚀性液体和气体。

Pressure thermometer is suited for measuring all media which has no corrosion for copper in industry area, if the media has corrosion, you should select anti-corrosion type, this gauge is widely used in machinery, textile, chemical medicine, foodstuffs to temperature measuring and controlling. Anti-corrosive type adopt the stainless steel material which is suited for the liquids or gases which has medium corrosion.

主要技术指标 Main Technical Data

型号 Model	功能 Function	表面直径 Diameter (mm)		视向 Sight	表壳材料 Case material
WTZ-280	指示式 Indicating	Φ100	Φ150	径向(柱表式) Radial	胶木不锈钢 Bakelite St.st
WTQ-280					



WTZ-280



WTQ-280

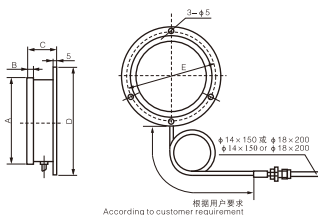
测量范围 Scale Range

测量范围 Scale Range	WTZ-280	-20~60, 0~100, 20~120, 60~160
	WTQ-280	-40~60, 0~50, 0~120,
温包插入深度 Stick length (mm)	150~280(尾长 Tail length ≤ 12M), 200~330(尾长 Tail length > 12M)	
温包材料 Stick material	Φ8, Φ10, Φ13, Φ14铜管 copper pipe, Φ8, Φ10, Φ13, Φ14不锈钢管 st. pipe	
毛细管材料 Capillary material	铜质毛细管/包塑毛细管/不锈钢毛细管 copper capillary/PVC capillary/st. capillary	
安装方式 Installation	WTZ-280	M27 × 2可动外螺纹 Movable male thread
	WTQ-280	M33 × 2可动外螺纹 Movable male thread
尾长 Tail length	1M~20M > 20M特殊加工	1M~20M > 20M specialties process
技术参数 Technical data	精度等级 Accuracy: ± 1.5%, ± 2.5% 触头容量 contacts capacity 220W/1A(无感负载 Noninduction load 10VA)	
安装孔尺寸 Installation size	4" -Φ118mm 6" -Φ158mm	

外形尺寸 Dimension



WTZ-280B-F



单位(Unit):mm

WTQ WTZ -280	A	B	C	D	E
Φ100	117	20	51	130	118
Φ150	157	20	51	172	160

WTZ、WTQ 电接点压力式指示温度计

WTZ, WTQ electrical pressure pointing thermometer

用途说明 Application Description

本仪表适用于测量对铜及铜合金不起腐蚀作用的液体、气体和蒸汽的温度，并能在工作温度达到或超过给定值时发出电信号。该温度计也可以用来作温度调节系统内的电路接触开关。

防腐型采用全不锈钢材料，适用于中性腐蚀、液体和气体。

This gauge is suited for measuring the medium temperature which has no corrosion with copper or copper alloys, and send out electrical message when the temperature reach or over the fixed value. this gauge also used as circuit shuter in temperature adjust system. Anti-corrosive type adopt the stainless steel material which is suited for the liquids or gases which has medium corrosion.

主要技术指标 Main Technical Data

名称 Name	型号 Model	测量范围 Measuring range ℃	精度 Accuracy class	表壳直径 Case size (mm)	安装螺纹 Thread
电接点压力式温度计 Pressure thermometer with electric contacts	WTZ-288	-20~+120	1.5 or 2.5	Φ150	M27×2
	WTQ-288	-20~+120		Φ100	M33×2

型号 Model	功能 Function	表面直径 Size (mm)	视向 View angle	表壳材料 Case
WTZ-288	电接点	Φ150	径向 Radial	胶木 Bakelite 不锈钢 st. st.
WTQ-288	Electric contacts	Φ100		



WTZ-288



WTQ-288



WTZ-288
WTQ

WSS、WSSX 系列双金属温度计

WSS, WSSX bi-metal thermometer

用途说明 Application Description

双金属温度计是采用双金属片为感温元件的一种测温仪表,广泛用于机械、化工、轻纺、制药、食品、船舶等生产过程中的测量和控制。WSSX系列能在工作温度达到或超过给定值时发出电信号,也可用来作为温度调节系统内的电路接触开关。防腐型采用全不锈钢材料,适用于中性腐蚀性液体和气体。

Bimetal thermometer is a measuring gauge which used bimetal piece as sensor part.widely used in machinery, chemical textile, medicnery,foodstuffs, vessel, for measuring and controlling the temperature.WSSX series bimetal thermometer can send out the message when the temperature reach or exceed the setting temperature, so it can be used as the electric switch in the temperature adjusting system. Anti-corrosive type adopt the stainless steel material which is suited for the liquids or gases which has medium corrosion.



WSS-411B-F

型号描述 Model Description



WSS-501

主要技术指标 Main Technical Data

表面直径Size (mm)	代号 Code	视向 View angle	代号 Code	安装方式 Mounting pattern	代号 Code	附加功能 Additional function	代号 Code
60	3	轴向axial	0	可动外螺纹 movable outer thread	1	户外型out-door use	J
100	4	径向radial	1	可动内螺纹 movable inner thread	2	三防anti-corrosion	F
150	5	135°	2	固定螺纹fixed thread	3		
111	4	万向All angle	6				
161	5	万向All angle	8	抽心式 Center back			



WSSX-412

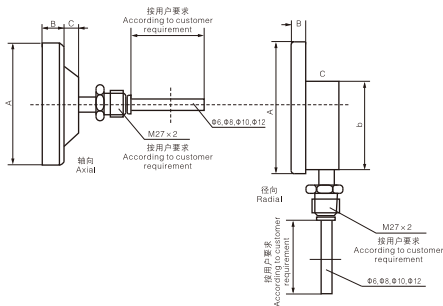
型号 Model	WS-71 WSX-71 WSS-301 WSS-311 WSS-321	WS-70	WSS-401 WSS-411 WSSX-401 WSSX-411 WSS-421 WSSX-421	WSS-401F WSS-411F WSSX-401F WSSX-411F WSS-421F WSSX-421F	WSS-501 WSS-511 WSSX-501 WSSX-511	WSS-501F WSS-511F	WSS-461 WSS-561 WSSX-461 WSS-481 WSS-581 WSSX-481(万向)
测温范围Measuring range (°C)	-60~600各档 -60~600 every class						
表面直径Size(mm)	Φ60	Φ68	Φ100	Φ100	Φ150	Φ150	Φ100、Φ150
保护套直径Thermo well diameter(mm)	Φ6 Φ8 Φ10 Φ12						
插入深度Testing bar length(mm)	L=75~2000(可根据用户要求) L=75~2000(Auording to requirement)						
表壳材质 Case	铝壳/不锈钢壳 Aluminum case/St.st.case	铝壳 Aluminum case	铝壳 Aluminum case	不锈钢壳 St.st.case	铝壳 Aluminum case	不锈钢壳 St.st.case	不锈钢壳 St.st.case
视向形式View angle	轴向、径向、135°、万向(代号8) Radial,axial,135° All angles(code 8)						
安装方式 Mounting pattern	无固定设置,可动外螺纹,可动内螺纹,固定外螺纹,固定法兰,上下套螺丝,卡套螺丝M16×1.5, M27×2, G1/2, G3/4(可根据用户要求) Unfixed setting,movable male,movable female,fixed male,fixed clamp,top and bottom screw clipped screw,M16×1.5, M27×2, G1/2, G3/4(according to requirement)						
技术参数 Technical parameters	精度等级: ±1.5%, 触头容量: 220V/1A(无感负载10VA) Accuracy ±1.5%, Contact capacity 220V/1A(no induction load 10VA)						

外形尺寸 Dimension

单位(Unit): mm



WSS-481B-F



WSS-511

表壳材料 Case	A	B	C	D	备注Remarks
铝壳 Aluminum case	$\Phi 60$	18	5		轴向axial
		18	30	47	径向radial
	$\Phi 100$	24	8		轴向axial
		24	37	60	径向radial
	$\Phi 150$	21	8		轴向axial
		21	38	65	径向radial

温度-压力两用表

Temperature pressure gauge

用途 Application

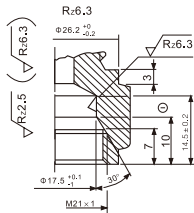
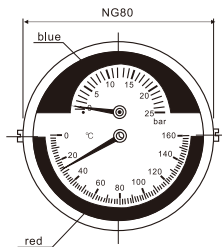
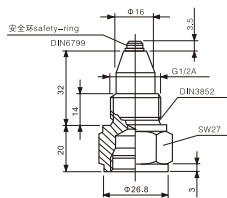
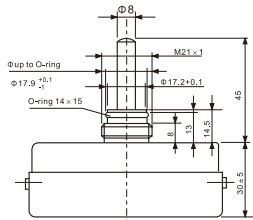
温度-压力两用仪表通过其内置的传感元件，可同时指示温度和压力。一般表面尺寸为80mm。

Thermo-ressure gauges type THR 80.11 with indicating pressure and temperature, which is measured by the rearside sensotube. Deliverable in nominal size 80mm.



表面尺寸Dial	80mm
壳体 Case	黑色铁壳Steel, black
测量系统 Measuring System	黄铜合金Brass-copper alloy
测量范围 Scale range	0-40 bar/°C
连接螺纹 Connection thread	G1/2"/G1/2" BSPT with rearside sensotube and automatic closing valve
镜面 Lens	玻璃管Glass
表罩 Ring	铁镀铬表罩Steel chrome-plated bezel ring
刻度 Scales	Bar/°C: 0-120°C/160°C
选择 Options	特殊焊接处理使温度达160°C时仍能正常工作 Completely hard soldered-useable to 160°C

外观尺寸 Dimension



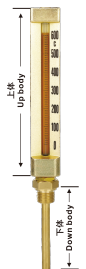
Dia.110,150,200玻璃管温度计

Dia.110,150,200 machine glass thermometer

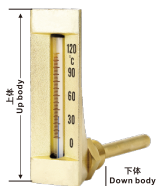
用 途 Application

此玻璃管温度计可非常精确的测量零度以上及零度以下的温度

Thermometers for very precise measurement indicating negative and / or positive Temperature.



直形
Dstraight type



直角形
Right angle type

长度Length	110mm × 30mm	150mm × 36mm	200mm × 36mm
壳体 Case	铝壳镀黄铜Alu-V-form brass-zinc-coated		
测量系统 Measuring System	黄铜套 Brass		
测量范围 Measure range	-60°C ~ +600°C		
连接螺纹 Connection thread	brass G1/4", G1/2" NPT; BSPT... Option: St. st. (ss 316) Thermowells		
连接方式 Connection	径向, 轴向, 直角90° Bottom, back, angle90°		
流体容纳器 Fluid container	玻璃管 Glass		
流体 Fluid	加入蓝色水底 Blue filling, ab 200°C quick silver		
测量杆长度 Stem	可根据客户要求45mm, 63mm, ... at inquiry		

其他规格可根据客户要求订做。

Special execution according to customer's requirements possible.

Dia.63,80,100,150 Acc1,6出口双金属温度计

Dia.63,80,100,150 Acc 1,6 bi-metal thermometer

用 途 Application

此类双金属温度计可以测量各种零度以上及零度以下的温度

Thermometers for general measurement of positive and / or negative temperature.

Φ 直径 Diameter	63mm	80mm	100mm	150mm
壳体 Case	铝壳镀铬或不锈钢Steel-chrome-plated,option:St.st			
测量杆Measuring system	黄铜或不锈钢(SS316) Brass,option:St.st,(SS316)			
测量范围 Scale range	-60°C ~ +600°C			
连接螺纹Connection thread	brass G1/4", G1/8" NPT; BSPT---Option:St.st.(ss 316)			
连接方式 Connection	径向或中心轴向Bottom,back centre			
镜面Lens	玻璃管Glass			
标牌Dial	白色铝盘Aluminium-white			
指针Pointer	黑色铝指针Aluminium-black			
表罩Ring	铁镀铬Steel-chrome-plated			
其他选择Options	前法兰安装Front flange			
测量杆长度Stem	可根据客户要求45mm,63,...at inquiry			

其他规格可根据客户要求订做。

Special execution according to customer's requirements possible.

