



讯联股份[®]
SOLINER



电话：025-8555-1160 传真：025-8533-3695

地址：南京市栖霞区天马路22号 邮箱：zgl@soliner.com

讯联官方网站：www.solinerglobal.com

南京讯联液压技术股份有限公司

NANJING SOLINER HYDRAULIC TECHNOLOGY CO., LTD.

传感器

SENSOR

ABOUT SOLINER

关于讯联

南京讯联液压技术股份有限公司成立于2003年，是一家液压过滤器、传感器、风电润滑系统、液压件的领先制造商。产品广泛应用于工程机械、冶金、航空航天、风力发电、机床、石油、化工、船舶等行业。作为一家以客户为中心的公司，我们努力为客户提供高品质的产品和服务。我们拥有完善的研发能力和先进的生产设备，致力于创新和卓越。

Founded in 2003, Nanjing Soliner Hydraulic Technology Co., Ltd. is a leading manufacturer of hydraulic filters, sensors, wind power lubrication systems and hydraulic components. The company's products are widely applied in construction machinery, metallurgy, aerospace, wind power, machine tools, petroleum, chemical, shipbuilding and other industries. As a customer-oriented company, we strive to provide our customers with high-quality products and services. With complete research and development capabilities and advanced production equipments, we are committed to innovation and excellence.

研发·生产·销售·服务
R&D · Production · Sales · Service



ACCREDITATIONS AND HONORS

荣誉资质

讯联2024年被评为“国家级专精特新小巨人企业”、“美国工程设备制造协会会员”。截止目前已拥有国家授权专利100余项，其中发明专利21项，实用新型专利53项；技术监督局备案企业标准两部。同时公司被认定为“高新技术企业”、“南京市瞪羚企业”，多个产品被认定为《江苏省高新技术产品》，且获德国、美国国家专利授权。

Soliner was rated as a "National Little Giant Enterprise Specializing in Specialized, Sophisticated, Unique and New Products" in 2024. It is a member of the American Engineering Equipment Manufacturers Association. To date, it has obtained more than 100 national authorized patents, including 21 invention patents and 53 utility model patents. The company has two enterprise standards filed with the Technical Supervision Bureau. At the same time, the company has been identified as a "High-tech Enterprise", "Nanjing Gazelle Enterprise", and New Little Giant Enterprise". Several products have been recognized as "Jiangsu High-tech Products", and have also obtained patent authorizations from Germany and the United States.

21 发明专利
invention patents

53 实用新型专利
utility model patents



MAIN PRODUCT LINES

主要产品系列

01-06 PAGE	PMP-S222 系列 压力变送器	PMP-S222 Pressure Transmitter
07-14 PAGE	SPT 系列 压力变送器	SPT Pressure Transmitter
15-18 PAGE	SKT-SK 系列 压力变送器	SKT-SK Pressure Transmitter
19-26 PAGE	CIT 系列 压力变送器	CIT Pressure Transmitter
27-30 PAGE	CTT 系列 温度变送器	CTT Temperatur transmitter
31-32 PAGE	CPS 系列 液位探头	CPS Level Probe
33-36 PAGE	CHT-S 系列 湿度露点仪	CHT-S Humidity and Dew Point Meter
37-40 PAGE	DDPT 系列 压力变送器	DDPT Pressure Transmitter

PRESSURE TRANSMITTER

PMP-S222

PMP-S222系列



工业自动化
Industrial Automation



可再生能源
Renewable Energy



工业过程控制
Industrial Process Control



非公路移动设备
Off-highway Mobile Equipment



交通运输
Transportation

PMP-S222系列的压力变送器应用于高压和侵蚀性介质测量, 紧凑型设计、高集成度, 内部无密封圈、无焊接, 基于输出信号诊断功能(可选), 可测氢, 可定制。

The PMP-S200 series of pressure transmitters for high pressure and aggressive media measurement, compact design, high integration, no internal seal, no welding, based on the output signal diagnostic function (optional), can measure hydrogen, can be customized.

不锈钢 - 薄膜 - 测量芯片

Stainless Steel-Thin Film-Measurement Chip

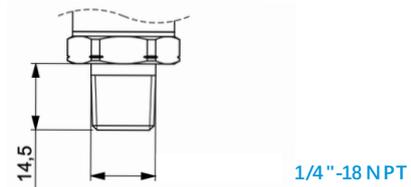
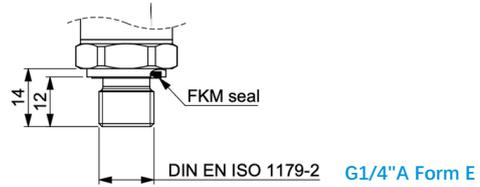
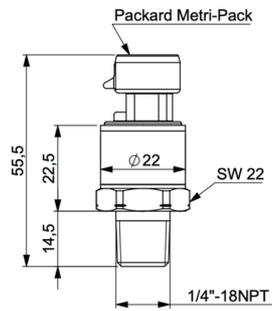
测量范围	Measurement Range	-1~0bar/0~2.000bar		
标准电气信号	Standard Electrical Signal	4~20 mA 10~32VDC	1~5 v 7~32VDC	ratiometric 0.5~4.5 v ratiometric 5 V DC...+10%
		< (Vsupply - 10)v/0.02 A	≥2 kOhm	≥2 kOhm
响应时间	Response Time	typ.1 ms max.2 ms		
温度范围	Temperature Range	-40~105°C (环境温度)	-40~125°C (介质温度)	-40~125°C (存储温度)
公称压力	Nominal Pressure	10 16 25 40 60 100 160 250 400 600 900		
过载压力	Overload Pressure	20 32 50 80 120 200 320 500 800 1200 1400		
爆破压力	Burst Pressure	50 75 100 200 250 500 750 1000 1400 1800 2000		
压力类型	Types of Pressure	gauge , sealed reference(> 60bar)		
机械连接	Mechanical Connection	G1/4" A From E, DIN EN ISO1179-2; 1/4" -18 NPT;7/16-20 UNF SAE J514		
安装扭矩	Installation Torque	typ 25 Nm;max 50 Nm		
接液部件	Wetted Parts	typ 25 Nm;max 50 Nm		
壳体	Housing	Stainless steel 1.4301/AISI 304		

精度(25°C)	Accuracy	≤0.5 % FS limit point settings (≤0.35% FS BFSL)
全温区精度	Full-Temperature-Range Accuracy	1.5 %
长期稳定性	Long-term Stability	≤0.1 % FS per year in referential conditions
耐冲击	Impact Resistance	1000 g to IEC 60068-2-32
抗振动	Vibration Resistance	20 g to IEC 60068-2-6
防护等级	Protection Rating	Depending on electrical connection,see drawing of electrical connectors
反接保护	Reverse Polarity Protection	yes
绝缘强度	Insulation Strength	HV 350 VDC
EMC	Emv Guideline	2014/30EU acc. to DIN EN 61326-1 , DIN EN 61326-2-3
RoHS	Rohs Guideline	2011/65/EU
重量	weight	~50g
工作寿命	Working Life	> 1000万次压力循环 Over 10 million pressure cycles
标准	Standard	ISO9001 EC79 CE UKCA

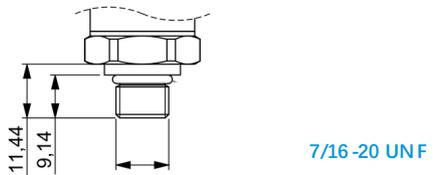
THREAD 螺纹

其它螺纹可定制，请与厂家联系。

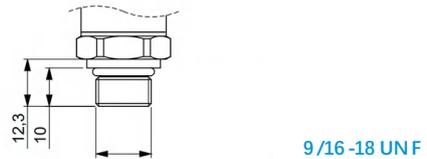
Product Construction



FKM seal
O-ring



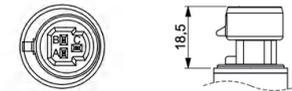
FKM seal
O-ring



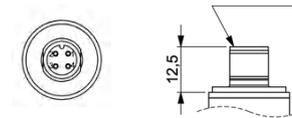
SAE J514

ELECTRICAL CONNECTION 电气接头

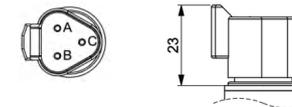
Packard
Metri-Pack



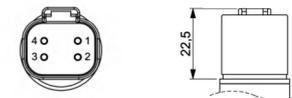
Binder M12x1
S763-4



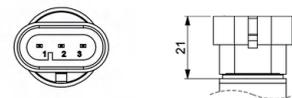
DT04-3P



DT04-4P



AMP Superseal



如何订购

How To Order

PMP - S222 - X - XX - (XX..XX) - XX - XX - XXS - XX - XXX

系列 SERIES

S = SPT Family

认证 CERTIFICATION

H = EC 79/2009 (only up to 600 bar)
0 = No approval

输出信号 OUTPUT SIGNALS

UR = 0,5...4,5 V (ratiometric)
I2 = 4 ... 20 mA (2L)
U5 = 1...5 V

测量范围 MEASURING RANGES

0...10/16/25/40/60/100/160/250/400/600/900

单位 UNIT

00 = Special unit
01 = bar
16 = psi

压力类型 TYPE OF PRESSURE

g = Relative pressure
S = Sealed reference pressure

CUSTOMISED 定制

Article number

电气连接 ELECTRICAL CONNECTION

01 = Packard Metri-Pack
05 = M12x1 (plastic); 4P
06 = DT 04-3P
11 = AMP Superseal
14 = DT 04-4P

过程连接 PROCESS CONNECTIONS

00 = Special connection
01 = G1/4"A form E
08 = 1/4"-18 NPT
09 = 7/16-20 UNF
S = with snubber

PRESSURE TRANSMITTER SPT

SPT 系列压力变送器

SPT / SPT-OHV / SPT-H2 / SPT-HP

移动液压领域
Mobilhydraulik机械制造领域
Maschinenbau气体技术领域
Gasetechnik液压领域
Hydraulik水技术领域
Wassertechnik医疗领域
Medizintechnik

测试芯片通过不锈钢薄膜结构感应压力，真空密封且非常坚固耐用，具有很高的过载能力和抗爆破性。传感器信号使用 ASIC 调理校准。SPT 系列变送器种类丰富，功能全面。

The test chip senses pressure through a stainless steel diaphragm structure, which is vacuum-sealed and extremely robust and durable, with high overloading capacity and burst resistance. The sensor signal is conditioned and calibrated using an ASIC. The SPT series of transmitters is diverse and fully functional.

测量范围	Measurement Range	-1...0bar/0...2.000bar	
标准电气信号	Standard Electrical Signal	两线制 4...20 mA 输出 Two-wire 4-20 mA output, power supply 10-32 VDC 供电 10...32VDC	
		可选: 0...10V/0...5V 输出 optional: 0...10V / 0...5V 也可根据具体订单来做输出调整 Output adjustments can also be made according to specific orders.	
温度范围	Temperature Range	介质温度 -40 °C...+125 °C	-40 °C...+125 °C Medium temperature
		环境温度 -40 °C...+105 °C	-40 °C...+105 °C Ambient temperature
与介质接触材质	Material in contact with the medium	316L 不锈钢	Edelstahl 1.4404 (AISI 316L)
壳体	Housing	304 不锈钢	Edelstahl 1.4301 (AISI 304)
过载压力	Overload Pressure	典型值2倍 Typ. 2 fach	
		400bar以上压力范围是1.5倍 The pressure range above 400 bar is 1.5 times.	
爆破压力	Burst Pressure	3 倍 Typ. 3 fach	
		400bar 以上压力范围是 1.5 倍 The pressure range above 400 bar is 1.5 times.	
压力类型	Types of Pressure	相对压力	Relative pressure
		绝对压力	Absolute pressure
内部密封	Internal Sealing	无需内部再加密封装置 No need to add internal sealing devices	
传压介质	Pressure-transmitting medium	钢膜 Steel diaphragm	

总误差	Total Error	≤0.5%FS 典型值≤0.25%FS, 按最佳拟合曲线法	≤0.5% FS, typical value ≤0.25% FS, according to the best-fit curve method
		-40°C...+85°C时总误差为1.5%FS	The total error is 1.5% FS over the temperature range of -40°C to 85°C.
非线性	Non-linear	典型值 ≤ 0.2 % FS (≤ 0.1 % FS, 按最佳拟合曲线法)	Typical value ≤0.2% FS (≤0.1% FS according to the best-fit curve method).
重复性误差	Repeatability Error	典型值 ≤ 0.10 % FS	Typ. ≤ 0,10 % FS
迟滞	Hysteresis	典型值 ≤ 0.10 % FS	Typ. ≤ 0,10 % FS
长期稳定性	Long-term stability	典型值 ≤ 0.1%FS 按照规范条件应用下	Typ. ≤ 0,1 % FS under the application of standard conditions.
耐冲击	Impact Resistance	1000g, 按照 IEC 60068-2-32 标准	g 1000 to IEC 60068-2-32
抗振动	Vibration-resistant	20g, 按照 IEC 60068-2-6 标准	g 20 to IEC 60068-2-6
响应时间	Response time	< 1ms(10% 到 90%)	< 1ms(10% bis 90%)
防护等级	IP rating	IP65, 其他 (IP67、IP 69K) 可按定制	IP65* Other (IP67 IP 69K) Customizable as needed
标准	Standard	EX SA GL	

接头连接参考 EN 175301-803 IP65, M12 x 1 和 IP 67 的线缆。数据表中提到的 IP 防护等级通常适用于接头连接的状态下。而相对变送器通常需要非密封的插头或电缆, 以确保气压平衡。压力范围 60 bar 以上则无需如此。

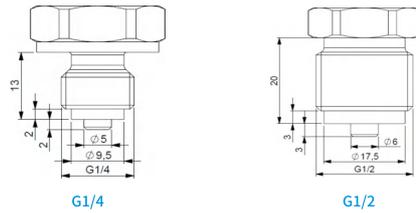
The connectors are designed in accordance with EN 175301-803 IP65, M12x1, and IP67 cables. The IP protection ratings mentioned in the datasheet are typically applicable when the connectors are properly connected. However, relative pressure transmitters usually require non-sealed plugs or cables to ensure pressure equalization. This is not necessary for pressure ranges above 60 bar.

SUITABLE THREADS

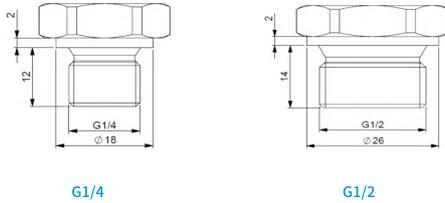
适用螺纹

其它螺纹可定制，请与厂家联系。
OTHER THREADS CAN BE CUSTOMIZED. PLEASE CONTACT THE MANUFACTURER.

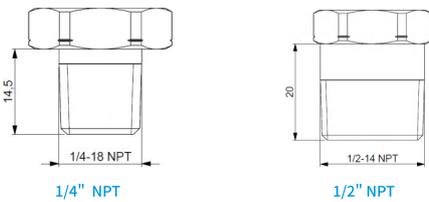
NACH EN 837



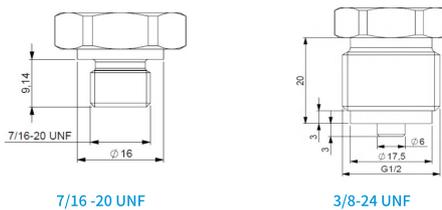
接头样式: A FITTING STYLE A



外螺纹 MALE THREAD



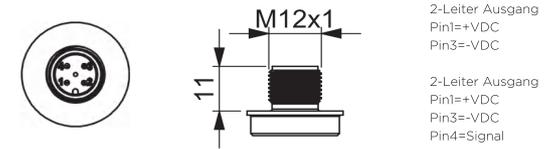
外螺纹 MALE THREAD



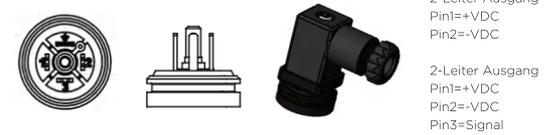
ELECTRICAL CONNECTION

电气接头

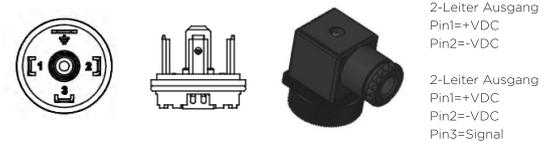
M12/BINDER BINDER S763-4



EN 175301-803-C SERIE 230



EN 175301-803-A



PACKARD METRI-PACK, 3 PIN.



此压力变送器采用不锈钢材质，弹性体为薄膜结构，非常坚固可靠。

This pressure transmitter is made of stainless steel, with a diaphragm structure for the elastic element, making it very robust and reliable.

不锈钢测试芯片和 SPT 标准相同，薄膜结构，采用整体式工艺，无焊点，无压力传导液，其钢成分专为氢应用设计。

The stainless steel test chip is identical to the SPT standard, featuring a diaphragm structure. It is manufactured using a monolithic process, free of solder joints and pressure-transmitting fluids. Its steel composition is specifically designed for hydrogen applications.

SPT-OHV

OFF HIGHWAY VEHICLE

- BREMSSYSTEME 制动系统
- MOBILE ARBEITSMASCHINEN 移动机械
- MOBILHYDRAULIK 移动液压
- MOTORMANAGEMENT 电机管理



不锈钢 - 薄膜 - 测量芯片

Stainless Steel - Thin Film - Measurement Chip

测量范围	Measurement Range	0...6bar 最大0...1000bar (2000bar是SPT-HP型号)	0...6 bar, maximum 0...1000 bar (2000 bar for the SPT-HP model).
标准电气信号	Standard Electrical Signal	两线制 4...20 mA输出 供电 9...32VDC	Two-wire 4-20 mA output, power supply 10-32 VDC
		0.5...4.5V比例电压输出 供电 5±0.5VDC	0.5...4.5 V proportional voltage output 供电 5±0.5VDC
		可选: 0...5V	optional: 0...5V
温度范围	Temperature Range	介质温度 -40 °C...+125 °C	Mediumtemperatur -40 °C...+125 °C
		环境温度: -40 °C...+105 °C	Ambient temperature -40 °C...+105 °C
精度	Accuracy	典型值 < 0.5 % FS 0.25% 按最佳拟合 曲线法，更准确值是 0.35%，因为仅 将非线性减半，迟滞现象和重复性的 是存在的。	The typical value is less than 0.5% FS. According to the best-fit curve method, it is 0.25%. However, a more accurate value is 0.35%, as this only halves the nonlinearity, while hysteresis and repeatability still exist.
		-40 °C...85 °C 温度下 总误差典型值为 1.5 %FS	The typical value of the total error is Typ. 1.5 % -40 °C...85 °C
与介质接触材质	Material in contact with the medium	304 不锈钢	Edelstahl 1.4301 (AISI 304)
壳体	Housing	304 不锈钢	Edelstahl 1.4301 (AISI 304)
过载压力	Overload Pressure	典型值2倍 (可根据具体需求调高)	Typ.2 fach (The total error can be adjusted according to specific requirements.)
		400bar 以上压力范围是 1.5 倍	The pressure range above 400 bar is 1.5 times.
爆破压力	Burst Pressure	典型值 3 倍 (可根据具体需求定制)	Typ.3 fach (The total error can be adjusted according to specific requirements.)
压力类型	Types of Pressure	相对压力 / 绝对压力 / 密封压力	Relative Pressure/Absolute Pressure/Sealing Pressure
内部密封	Internal Sealing	IP65, 其他 (IP69K) 可按需定制	IP 65/IP69K Customizable as needed
标准	Standards	DIN EN61326-2-3 (EMV-Anforderung)	

SPT-H2

测氢压力变送器

- WASSERSTOFF-ANWENDUNGEN 氢能行业应用



一体不锈钢 - 测量芯片

monolithic stainless steel-measurement chip

测量范围	Measurement Range	-1...0bar 最大0...1000bar	-1...0 bar max. 0...1000 bar
标准电气信号	Standard Electrical Signal	两线制 4...20mA输出 供电 9...32VDC	Two-wire 4-20 mA output, power supply 10-32 VDC
		三线制 0.5...4.5V比例电压输出 供电 5±0.5VDC	0.5...4.5 V proportional voltage output 供电 5±0.5VDC
		可供: 0...5V	optional: 0...5V
温度范围	Temperature Range	介质温度 -40 °C...+125 °C	Mediumtemperatur -40 °C...+125 °C
		环境温度: -40 °C...+105 °C	Umgebungstemperatur -40 °C...+105 °C
精度	Accuracy	典型值 ≤ 0.5 % FS BFSL	Typ. ≤ 0.5 % FS BFSL
		-40 °C...85 °C 温度下总误差 ≤ 1.5 %FS	-40 °C...85 °C The typical value of the total error is Typ. ≤ 1.5 %FS
与介质接触材质	Material in contact with the medium	不锈钢 1.4404 (AISI 316L)	Edelstahl 1.4404(AISI 316L)
壳体	Housing	不锈钢 1.4301 (AISI 304)	Edelstahl 1.4301 (AISI 304)
过载压力	Overload Pressure	典型值2倍 (可按需定制)	Typ.2 fach (The total error can be adjusted according to specific requirements.)
		400bar 以上压力范围是 1.5 倍	The pressure range above 400 bar is 1.5 times.
爆破压力	Burst Pressure	3 倍	3 fach
压力类型	Types of Pressure	相对压力	Relative pressure
内部密封	Internal Sealing	IP 65 (IP 69 或其它防护等级取决于 于电气接头系统)	IP65 (P69 or other protection ratings depending on the electrical connection system).
标准	Standards	EX SA	

膜片材料由钛或不锈钢制成，非常坚固且长期稳定。

The diaphragm material is made of titanium or stainless steel, which is very robust and long-term stable.

SPT-HP

(HIGH PRESSURE 高压变送器)

- HOCHDRUCKHYDRAULIK 高压液领域
- DIESELMOTORENTECHNIK 柴油发动机领域
- WASSERSTRAHLTECHNIK 水喷射技术



用于高压应用

For high-pressure applications

测量范围	Measurement Range	0...2000bar 最大0...5000bar	0...2.000 bar max. 0...5000 bar
标准电气信号	Standard Electrical Signal	两线制 4...20 mA输出 供电 9...32VDC	Two-wire 4~20 mA output, power supply 10~32 VDC
		0.5~4.5V比例电压输出 供电5±0.5VDC	0.5...4.5 V proportional voltage output
		可选: 0.5~4.5V@5V/0...5V/0...20mA	optional: 0.5...4.5V @5V / 0...5V / 0...20mA
温度范围	Temperature Range	介质温度 -40 °C...+125 °C	Mediumtemperatur -40 °C...+125 °C
		环境温度: -40 °C...+105 °C	Ambient temperature -40 °C...+105 °C
精度	Accuracy	典型值0.5% FS (根据IEC 61298-2标准) 参见 SPT-OHV	Typischer Wert 0,5% FS (gemäß Norm IEC 61298-2) Siehe SPT-OHV
		-40 °C...85 °C 温度下 总误差为 1.5 %	The typical value of the total error is Typ. 1.5 % -40 °C...85 °C
与介质接触材质	Material in contact with the medium	钛 / 不锈钢	Titanium/stainless steel
壳体	Housing	不锈钢 1.4301 (AISI304)	Edelstahl 1.4301 (AISI 304)
过载压力	Overload Pressure	典型值1.5倍	Typ. 1.5 fach
		4000bar 以上压力是 1.2 倍	The pressure range above 400 bar is 1.2 times.
爆破压力	Burst Pressure	2 倍	2 fach
压力类型	Types of Pressure	相对压力 / 绝对压力 / 密封压力	Relative Pressure/Absolute Pressure/Sealing Pressure
内部密封	Internal Sealing	IP 65 (其它可定制)	IP65 (P69 or other protection ratings depending on the electrical connection system).
标准	Standards	EX SA	

SPT-SELECTION CODE

SPT 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 螺纹 + 接头 + 材质

例 1: SPT-UR-400-B-D-4-1 (SPT 型)
例 2: SPT-H2-I2-300-B-E-2-1 (SPT-H2 型)

电气输出信号
(范围对应缩写编码) (Range Corresponding to Abbreviation Code)

Electrical Output Signal

额定压力参数

Rated Voltage Parameter

压力值单位
(单位对应其缩写) (Unit Corresponding to its Abbreviation)

Pressure Unit

螺纹
(型号及对应字母) (Model and Corresponding Letter)

Thread

注:
测试氢只能选锥螺纹。 For testing hydrogen, only conical threads can be selected.

Note:

电气接头
(型号 / 品牌及对应数字)

Electrical Connector

与介质接触材质
(不同材质对应不同编号)

Material in contact with the medium

Model + Output Signal + Measuring Range + Unit + Thread + Connector + Material

Example 1 : SPT-UR-400-B-D-4-1 (SPT-Typ)
Example 2 : SPT-H2-I2-300-E-2-1 (SPT-H2-Typ)

4...20mA	I2
0...5V	U5
0...10V	U10
0.5...4.5V ratiometrisch 比例电压	UR
自定义	Customized
bar	B
kPa	K
MPa	M
psi	P
G1/4 "Form E DIN 1179-2	A
G1/4 "Form A DIN 3852-2	B
G1/4 "Form G DIN 1179-3	C
G3/8 "ISO1179-3(JISB2351)	D
1/4 "-18 NPT	E
1/2 "-14 NPT	F
G1/2 "Form E DIN 1179-2	G
G1/2 "EN837 Manometer Port 压力接口	H
J7/16-20 UNF/K SAE	Q
J3/8-24 UNF/K SAE	R
9/16-18UNF-2A (for H2)	S
EN 175301-803-C (MVS-C) 小赫斯曼	0
EN 175301-803-A (MVS-A) 大赫斯曼	1
M12/Binder S763-4 M12 航插	2
Packard Metripack 派克接头	4
Deutsch 德驰两芯 DT04-2P	5
Deutsch 德驰三芯 DT04-3P	6
Deutsch 德驰四芯 DT04-4P	7
无 :	1.4301 / AISI 304
-1	1.4404 / AISI 316 L
-2	1.4542 / AISI 630 / 17-4 PH
-3	Silicon 硅

PRESSURE TRANSMITTER SKT-SK

SKT-SK 系列压力变送器



空气压力领域
Air Pressure Application



汽车技术
Automotive Technology



自动化技术
Automation Technology



供暖通风
Heating and Ventilation



空气调节
Air Conditioning

结构紧密，配备硅测量芯片和 ASIC 集成电路。
适用于干燥的非腐蚀性气体及中性非导电液体。

The structure is compact, equipped with a silicon measuring chip and an ASIC integrated circuit.
It is suitable for dry, non-corrosive gases and neutral, non-conductive liquids.

硅测量芯片

Silicon Measuring Chip

测量范围	Measurement Range	-1...0bar/0...160mbar, 最大0-40bar -1...0bar / 0...160mbar,max 0-40bar	
标准电气信号	Standard Electrical Signal	两线制 4...20 mA输出 供电 10...32VDC	4...20 mA 2-Leiter bei 10...32 V
		0.5...4.5V比例电压输出 供电 5VDC	0.5...4.5V @5VDC
		可选: 0...5 (10V)	optional:0...5V(10V)
温度范围	Temperature Range	介质温度 -40 °C...+85 °C (可选 125 °C)	Mediumtemperatur -40 °C...+85 °C (optional 125 °C)
		环境温度 -40 °C...+85 °C (最高可到 125 °C)	Ambient temperature -40 °C...+85 °C (ratiometrisch bis 125 °C)
与介质接触材质	Material in contact with the medium	不锈钢 1.4301 (AISI 304), 硅, 硅胶胶水, 丁腈橡胶 铝及塑料 (如 PA66)	Stainless Steel 1.4301 (AISI 304), Silicon, Adhesive, Nitrile Rubber, Aluminum and Plastics (such as PA66)
壳体	Housing	不锈钢 1.4301 (AISI 304)	- Edelstahl 1.4301 (AISI 304)
过载压力	Overload Pressure	2倍	Typ.2 fach(landere auf Anfrage)
爆破压力	Burst Pressure	3 倍	Typ. 3 fach
压力类型	Types of Pressure	相对压力 / 绝对压力 / 密封压力	Relative Pressure/Absolute Pressure/Sealing Pressure
内部密封	Internal Sealing	丁腈橡胶	NBR
传压介质	Pressure-transmitting medium	无	None

总误差 Total Error

典型值 $\leq 1\% \text{FS}$ ($\leq 0.5\% \text{FS}$ 按照最佳线性拟合) 参考 OHV
The typical value is $\leq 1\% \text{FS}$
($\leq 0.5\% \text{FS}$ according to the best linear fit), referenced to OHV.

非线性 Non-linear

典型值 $\leq 1.5\% \text{FS}$ 在 (-40 °C...+85 °C) 参考 OHV
The typical value is $\leq 1.5\% \text{FS}$ over the temperature range of (-40 °C to 85 °C), referenced to OHV.

重复性误差 Repeatability Error

$\leq 0.15\% \text{FS}$

迟滞 Hysteresis

$\leq 0.15\% \text{FS}$

长期稳定性 Long-term stability

在规范条件下测试应用
 $\leq 0.15\% \text{FS}/\text{年}$
 $\leq 0.15\% \text{FS}$ Tested under standardized conditions.

耐冲击 Impact Resistance

1000g, 按 IEC 60068-2-32 标准 g 1000 to IEC 60068-2-32

抗振动 Vibration-resistant

20g, 按照 IEC 60068-2-6 标准 g 20 to IEC 60068-2-6

响应时间 Response time

<1ms

防护等级 IP rating

IP65 (IP 69K 等级取决于电气接头类型)
IP65/IP 69K the rating depends on the type of electrical connection.

标准 Standard

E1

接头连接参考 EN 175301-803 IP65, M12 x 1 和 IP 67 的线缆。数据表中提到的 IP 防护等级通常适用于接头连接的状态下。而相对变送器通常需要非密封的插头或电缆, 以确保气压平衡。压力范围 60 bar 以上则无需如此。

The connectors are referenced to EN 175301-803 IP65, M12x1, and IP67 cables. The IP protection ratings mentioned in the datasheet usually apply to the condition when the connectors are connected. However, the transmitter typically requires non-sealed plugs or cables to ensure pressure balance. This is not necessary for pressure ranges above 60 bar.

SUITABLE THREADS

适用螺纹

其它螺纹可定制, 请与厂家联系。

NACH EN 837 (MANO- METERNIPPEL)



G1/4

G1/2

NACH DIN 3852-FORM A 接头样式: A



G1/4

G1/2

外螺纹 AUSSERGEWINDE



1/4" NPT

1/2" NPT

外螺纹 AUSSERGEWINDE



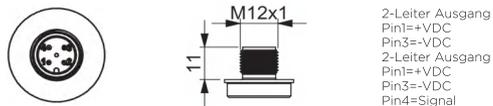
7/16-20 UNF

3/8-24 UNF

ELECTRICAL CONNECTION

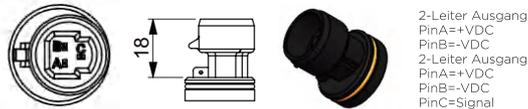
电气接头

M12/BINDER EN 175301-803-A



2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC
2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC
Pin4=Signal

PACKARD METRI-PACK,3 PIN.



2-Leiter Ausgang
PinA=+VDC
PinB=-VDC
2-Leiter Ausgang
PinA=+VDC
PinB=-VDC
PinC=Signal

SKY-SK SELECTION CODE

SKT-SK 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 螺纹 + 接头 + 材质

Model + Output Signal + Measuring Range + Unit + Thread + Connector + Material

例: SKT-SK-UR-10-B-C-4-3

Example 1: SKT-SK-UR-10-B-C-4-3

电气输出信号
(范围对应缩写编码)

Electrical output signal

4...20mA

I2

0...5V

U5

0...10V

U10

0.5...4.5V ratiometrisch 比例电压

UR

额定压力参数
Rated voltage parameters

自定义

压力值单位
(单位对应其缩写)

Pressure value unit

bar

B

kPa

K

MPa

M

psi

P

螺纹
(型号及对应字母)

Thread

G1/4 "Form E DIN 1179-2

A

G1/4 "Form A DIN 3852-2

B

G1/4 "Form G DIN 1179-3

C

1/4 "-18 NPT

E

1/2 "-14 NPT

F

G1/2 "Form E DIN 1179-2

G

G1/2 "EN837 Manometer Port 压力接口

H

J7/16-20 UNF/K SAE

Q

J3/8-24 UNF/K SAE

R

电气接头
(型号 / 品牌及对应数字)

Electrical connector

M12/Binder S763-4 M12 航插

2

Packard Metripack 派克接头

4

与介质接触材质
(不同材质对应不同编号)

Material in contact with
the medium

无

1.4301 / AISI 304

-3

Silizium 硅

PRESSURE TRANSMITTER SERIE CIT

CIT 系列压力变送器



轮胎胎压
PNEUMATIK



自动化技术
VERFAHRENSTECHNIK



石油天然气
ÖL UND GAS



化学和制药领域
CHEMIE UND PHARMA



食品领域
LEBENSMITTEL

高精度和坚固紧密的设计实现其应用的广泛性。全真空密封的不锈钢膜片具有极强的防腐蚀性，可应用于液压、胎压、环保、自动化技术、半导体技术和汽车工程中的所有标准介质（与不锈钢兼容即可）。可满足自动液压和其他应用领域的标准应用需求。

The high precision and robust, compact design enable its wide range of applications. The fully vacuum-sealed stainless steel diaphragm offers excellent explosion-proof performance and can be used with all standard media in hydraulics, tire pressure, environmental protection, automation technology, semiconductor technology, and automotive engineering (provided they are compatible with stainless steel). It meets the standard application requirements in automatic hydraulics and other application fields.

工业应用

Industrial Application

测量范围	Measurement Range	1 mbar...1bar/-1...0bar/0...2000bar (该系列产品量程可迁移)	1 mbar...1 bar/-1...0bar / 0...2000bar (The measurement range of this series of products is migratable.)
标准电气信号	Standard Electrical Signal	两线制 4...20 mA输出 供电 10...32VDC	4...20 mA 2-Leiter bei 10...32 V VS
		0.5...4.5V比例电压输出 供电 5VDC	0.5...4.5V @5VDC
		可选: 0...5 0...10V	optional:0...5V 0...10V
温度范围	Temperature Range	介质温度 -40 °C...+125 °C	Mediumtemperatur -40 °C...+125 °C
		环境温度 -40 °C...+105 °C	Ambient temperature -40 °C...+105 °C
与介质接触材质	Material in contact with the medium	304 不锈钢	stainless steel 1.4301 (AISI 304)
壳体	Housing	304 不锈钢	stainless steel 1.4301 (AISI 304)
过载压力	Overload Pressure	2倍	Two-fold
爆破压力	Burst Pressure	3倍	Threefold
		600bar 以上是 1.5 倍	Above 600 bar, it is 1.5 times
压力类型	Types of Pressure	相对压力	Gauge Pressure
总误差	Total Error	典型值≤0.15% FS (≤0.1%FS按照最佳线性拟合法)	Typical value ≤0.15% FS (≤0.1% FS according to the best-fit linear method)
		典型值≤0.15%FS (在-40°C...85°C)	Typical value ≤0.15% FS (over the temperature range of -40°C to 85°C)

非线性误差	Non-linear	≤ 0.05 % FS
重复性误差	Repeatability Error	≤ 0.05 % FS
迟滞	Hysteresis	≤ 0.05 % FS
长期稳定性	long-term stability	在规范条件下测试应用 ≤ 0.1%FS/年
		≤ 0,1 % FS under the application of standard conditions.
耐冲击	Impact Resistance	1000g, 按 IEC 60068-2-32 标准
		g 1000 to IEC 60068-2-32
抗振动	Vibration-resistant	20g, 按照 IEC 60068-2-6 标准
		g 20 to IEC 60068-2-6
响应时间	Response time	典型值 < 10 ms (如有需要, 50...200ms 可调)
		Typ. < 10 ms(einstellbar 50...200 ms)
防护等级	IP rating	IP65 (可按需定制)
		IP65 Customizable as needed
标准	Standard	EX SA

接头连接参考 EN 175301-803 IP65、M12 x 1 和 IP 67 的线缆。数据表中提到的 IP 防护等级通常适用于接头连接的状态下。而相对变送器通常需要非密封的插头及/或电缆，以确保气压平衡。压力范围 60 bar 以上则无需如此。

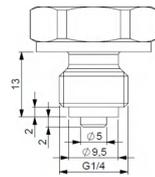
The fittings are connected in accordance with EN 175301-803 IP65, M12x1, and IP67 cables. The IP protection ratings mentioned in the datasheet are typically applicable to the condition of the fitting connections. However, relative transmitters usually require non-hermetic plugs and cables to ensure air pressure balance. This is not necessary for pressure ranges above 60 bar.

SUITABLE THREADS

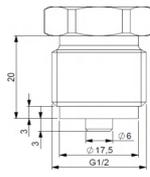
适用螺纹

其它螺纹可定制，请与厂家联系。

NACH EN 837



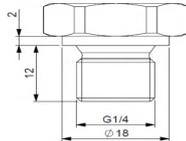
G1/4



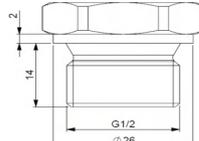
G1/2

NACH DIN 3852-FORM A

接头型号样式: A



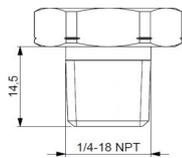
G1/4



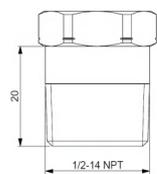
G1/2

外螺纹

AUSSENGEWINDE



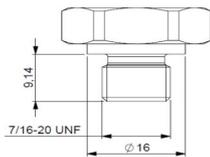
1/4" NPT



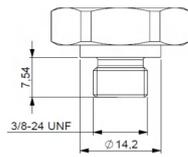
1/2" NPT

外螺纹

AUSSENGEWINDE



7/16 -20 UNF

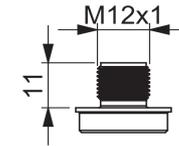


3/8-24 UNF

ELECTRICAL CONNECTION

电气接头

M12X1 (S763)

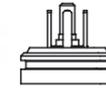


2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC
Pin4=Signal

EN 175301-803-C SERIE 230

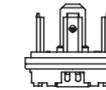
EN 175301-803-C



2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
Pin3=Signal

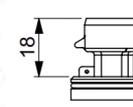
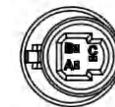
EN 175301-803-A



2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
Pin3=Signal

PACKARD METRI-PACK,3 PIN.



2-Leiter Ausgang
PinA=+VDC
PinB=-VDC

2-Leiter Ausgang
PinA=+VDC
PinB=-VDC
PinC=Signal

CIT SELECTION CODE

CIT 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 螺纹 + 接头 + 材质

例: CIT-I2-16-B-E-4-1

电气输出信号
(范围对应缩写编码)

Electrical output signal

额定压力参数

Rated voltage parameters

压力值单位
(单位对应其缩写)

Pressure value unit

螺纹
(型号及对应字母)

Thread

电气接头
(型号/品牌及对应数字)

Electrical Connector

与介质接触材质
(不同材质对应不同编号)

Material in contact with the medium

Model + Output Signal + Measuring Range + Unit + Thread + Connector + Material

Example 1: CIT-I2-16-B-E-4-1

4...20mA I2

0...5V U5

0...10V U10

0.5...4.5V ratiometrisch 比例电压 UR

自定义

bar B

kPa K

MPa M

psi P

G1/4 "Form E DIN 1179-2 A

G1/4 "Form A DIN 3852-2 B

G1/4 "Form G DIN 1179-3 C

1/4 "-18 NPT E

1/2 "-14 NPT F

G1/2 "Form E DIN 1179-2 G

G1/2 "EN837 Manometer Port 压力接口 H

J7/16-20 UNF/K SAE Q

J3/8-24 UNF/K SAE R

EN 175301-803-C (MVS-C) 小赫斯曼 0

EN 175301-803-A (MVS-A) 大赫斯曼 1

M12/Binder S763-4 M12 航插 2

Packard Metripack 派克接头 4

无 1.4301 / AISI 304

-1 1.4404 / AISI 316 L

-2 1.4542 / AISI 630 / 17-4 PH

CIT-F 压力变送器的平膜采用 316L 不锈钢材质 (316L), 专用于需要简单快速化清洗的行业。该变送器适用于温度范围 -40°C 到 +100°C 的高粘性液体, 推荐用于食品, 医疗等卫生要求较高的行业。变送器内置注油硅传感器, 不锈钢采用激光焊接。
CIT-F 坚固紧凑, 适用于测量相对、绝对及超高压。

The CIT-F pressure transmitter features a flush diaphragm made of 316L stainless steel, specifically designed for industries that require simple and rapid cleaning. The transmitter is suitable for high-viscosity liquids within a temperature range of -40°C to +100°C and is recommended for industries with high hygiene requirements, such as food and medical. The transmitter is equipped with an oil-filled silicon sensor and the stainless steel components are laser welded. The CIT-F is robust and compact, making it suitable for measuring relative, absolute, and ultra-high pressures.

CIT-F

CIT-F 平膜式压力变送器

- Food industry 食品工业
- Metering pumps 计量泵
- Sanitary equipment 卫生设备
- General Industrial Applications 一般工业应用领域
- Mechanical manufacturing sector 机械制造领域
- Chemical industry sector 化工领域
- Equipment Installation and Automation Technology 设备安装和自动化技术



压力范围 Measurement Range

0...25mbar至0...250bar 0...25 mbar bis 0...250 bar

电气信号 Standard Electrical Signal

0.5...4.5V比例输出 0.5 ... 4.5 V ratiometrisch

0...10V bei 10...32V

0...5V bei 10...32V

4...20mA bei 10...32V

温度范围 Temperature Range

介质温度 -40 °C...+125 °C Mediumtemperatur -40 °C...+125 °C

环境温度 -40 °C...+105 °C Umgebungstemperatur -40 °C...+105 °C

精度 Accuracy

≤ 0.35 % FS

与介质接触材质 Material in contact with the medium

不锈钢 316L Stainless Steel 316L

壳体 Housing

不锈钢 316L Stainless Steel 316L

过载压力 Overload Pressure

典型值1.5倍 Typ. 1.5 fach

400bar 以上压力范围是 1.5 倍 The pressure range above 400 bar is 1.5 times.

防护等级 IP rating

IP65 (可按定制) IP65 (The total error can be adjusted according to specific requirements.)

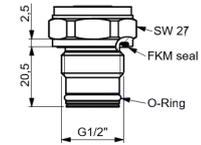
标准 Standards

SA EX

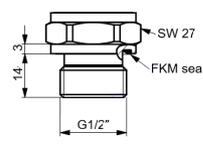
SUITABLE THREADS

适用螺纹

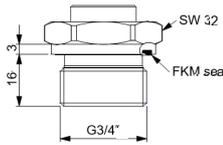
NACH EN 837 (MANO- METERNIPPEL)



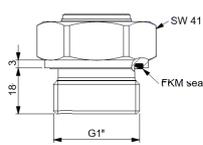
G1/2" A Form E, DIN 1179-2



G1/2" A Form E, DIN 1179-2



G3/4" A Form E, DIN 1179-2

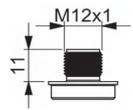


G1" A Form E, DIN 1179-2

ELECTRICAL CONNECTION

电气接头

M12/BINDER EN 175301-803-A



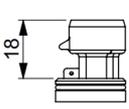
2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC
2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC
Pin4=Signal

EN 175301-803-C SERIE 230



2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
Pin3=Signal

PACKARD METRI-PACK, 3 PIN.



2-Leiter Ausgang
PinA=+VDC
PinB=-VDC
2-Leiter Ausgang
PinA=+VDC
PinB=-VDC
PinC=Signal

CIT-F SELECTION CODE

CIT-F 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 螺纹 + 接头 + 材质

例: CIT-F-I2-40-M-G-1-1

电气输出信号
(范围对应缩写编码)

Electrical output signal

额定压力参数

Rated voltage parameters

压力值单位
(单位对应其缩写)

Pressure value unit

螺纹
(型号及对应字母)

Thread

电气接头
(型号 / 品牌及对应数字)

Electrical connector

与介质接触材质
(不同材质对应不同编号)

Material in contact with
the medium

Model + Output Signal + Measuring Range + Unit + Thread + Connector + Material

Example 1: CIT-F-I2-40-M-G-1-1

4...20mA I2

0...5V U5

0...10V U10

0.5...4.5V ratiometrisch 比例电压 UR

自定义

bar B

kPa K

MPa M

psi P

G1/2 "Form E DIN 1179-2 (双密封) GD

G1/2 A "Form E DIN 1179-2 G

G3/4" A Form E, DIN 1179-2 S

G1/1" A Form E, DIN 1179-2 T

EN 175301-803-C (MVS-C) 小赫斯曼 0

EN 175301-803-A (MVS-A) 大赫斯曼 1

M12/Binder S763-4 M12 航插 2

-1 1.4404 / AISI 316 L

TEMPERATUR TRANSMITTER SERIE CTT

CTT 系列温度变送器



环境和加热系统
Environmental and heating systems

测量技术领域
Measurement technology

工业机器人
Industrial robots

过程监控
Process monitoring

水技术领域
Water technology

高精度和坚固紧密的设计实现其应用的广泛性，可用于标准的过程监控、测试技术及其他领域的标准应用需求。

The high precision and robust, compact design enable its wide range of applications, making it suitable for standard process monitoring, test technology, and other standard application requirements in various fields.

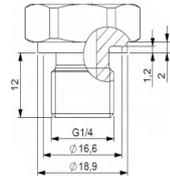
测量范围	Measurement Range	-40°C (可选-55°C) ... +150°C (可选200°C)	-40 °C (optional -55°C) ... +150 °C (optional 200°C)
标准电气信号	Material in contact with the medium	两线制4...20mA输出 供电10...32V	4...20 mA 2-Leiter bei 10...32 V
		0.5...4.5V比例电压输出 供电5VDC	0.5...4.5 V ratiometrisch bei 5 VS
		可选: 0...5V (0...10V)	Optional 0...5V [0...10V]
温度范围	Temperature Range	介质温度 -40 °C ... +150 °C	Mediumtemperatur -40 °C ... +150 °C
		环境温度 -40 °C ... +85 °C	Ambient temperature -40 °C ... +85 °C
精度	Accuracy	≤ 0.5 % FS (按照 IEC 61298-2)	≤ 0,5 % FS (gemäß IEC 61298-2)
		≤ 1.5 % FS, 在 -40 °C ... +85 °C 温度范围内	≤ 1,5 % FS Gesamtfehler bei -40 °C ... +85 °C

精度	Accuracy	≤ 0.5 % FS (按照 IEC 61298-2)	≤ 0,5 % FS (in accordance with IEC 61298-2)
		≤ 1.5 % FS, 在 -40 °C ... +85 °C 温度范围内	≤ 1,5 % FS Within the temperature range -40 °C ... +85 °C
接液材质	Wetted materials	304 不锈钢	Edelstahl 1.4301 (AISI 304)
壳体	Housing	304 不锈钢	Edelstahl 1.4301 (AISI 304)
温度杆	Temperature scale	50mm...250mm (该长度由杆子长度加上 安装螺纹部分长度组成)	50mm...250mm (The length is composed of the length of the rod plus the length of the installation thread section.)
防护等级	IP rating	IP 65 (其它等级取决于电气接头)	IP 65 (Other ratings depend on the electrical connections.)
标准	Standard	EX SA	

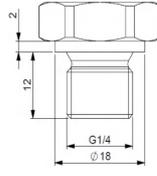
SUITABLE THREADS

适用螺纹

NACH EN 837 (MANO- METERNIPPEL)



G1/4 nach DIN 1179-2Form E

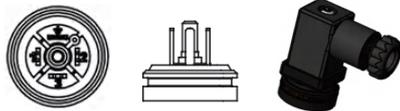


G1/4 nach DIN 3852Form A

ELECTRICAL CONNECTION

电气接头

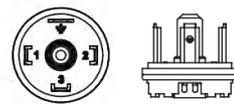
EN 175301-803-C SERIE 230



2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
Pin3=Signal

EN 175301-803-A



2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
Pin3=Signal

CTT SELECTION CODE

CTT 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 螺纹 + 接头 + 材质

Model + Output Signal + Measuring Range + Unit + Thread + Connector + Material

例: CTT-I2-160-A-B-0

Example 1 : CTT-I2-160-A-B-0

电气输出信号 (范围对应缩写编码)	Electrical output signal	4...20mA	I2
		0...5V	U5
		0...10V	U10
		0.5...4.5V ratiometrisch 比例电压	UR
长度	Length	自定义	
长度单位 (单位对应其缩写)	Unit of length	mm	A
		Inch	B
螺纹 (型号及对应字母)	Thread	G1/4 "Form E DIN 1179-2	A
		G1/4 "Form A DIN 3852-2	B
电气接头 (型号 / 品牌及对应数字)	Electrical connector	EN 175301-803-C (MVS-C) 小赫斯曼	0
		EN 175301-803-A (MVS-A) 大赫斯曼	1
与介质接触材质 (不同材质对应不同编号)	Material in contact with the medium	无	1.4404 / AISI 316 L
		- 1	1.4404 / AISI 316 L

LEVEL PROBE CPS

CPS 系列液位探头



测量范围	Measurement Range	1mH ₂ O至250mH ₂ O	1 mWS to 250 mWS [mWS: Meter Water Column]
电气信号	Standard Electrical Signal	0...10V三线制, 4...20mA两线制	0...10 V, 4...20 mA
压力范围	Pressure Range	0...100mbar 至0...25bar	0...100 mbar bis 0...25 bar
		可选: 0...5V (10V)	optional:0...5V(10V)
温度范围	Temperature Range	介质温度 -10 ... + 70°C	Mediumtemperatur -10 ... + 70°C
		环境温度 -10 ... + 70 °C	Ambient temperature -10 ... + 70 °C
		储存温度 -20 ... + 70 °C	Storage temperature -20 ... + 70 °C
与介质接触材质	Material in contact with the medium	316L 不锈钢	Stainless Steel 316L
壳体	Housing	316L 不锈钢	Stainless Steel 316L
过载压力	Overload Pressure	2倍, 取决于压力范围	Twice, depending on the pressure range
爆破压力	Burst Pressure	3倍, 取决于压力范围	Three times, depending on the pressure range
总误差	Total Error	≤ 0.5 % FS (可选至 0.15% FS)	≤ 0.5% FS (Optional up to 0.15% FS)
非线性	Non-linearity	≤ 0.1 % FS	
重复性误差	Repeatability Error	≤ 0.05 % FS	
迟滞	Hysteresis	≤ 0.05 % FS	
长期稳定性	Long-term Stability	≤ 0.1%FS, 在规范条件下测试应用	≤ 0.1%FS, tested under specified conditions
耐冲击	Impact Resistance	1000g, 按 IEC 60068-2-32 标准	g 1000 to IEC 60068-2-32
抗振动	Vibration-resistant	20g, 按照 IEC 60068-2-6 标准	g 20 to IEC 60068-2-6
响应时间	Response time	<1ms, 在 4ms 时与 CPS 匹配	< 1ms Matching with CPS at 4ms
防护等级	IP rating	IP68	IP68
标准	Standard	EX SA	



液位测量
Level measurement

- Ventilated tank 透气的水箱
- Container 容器
- Water technology 水技术设备



水位测量
Water level measurement

- River 河流
- Stream 溪流
- Lake 湖泊
- Dam 水坝

CPS 系列的液位探头采用不锈钢膜片及半导体薄膜技术, 具有良好的性能, 适用于透气的水箱、水技术设备中的液位测量以及河流、溪流、湖泊及水坝的水位监测。该探头最深可潜至 250 米, 不锈钢外壳实现其较高的密封性及坚固性。

The level probes of the CPS series feature stainless steel diaphragms and semiconductor thin-film technology, offering excellent performance. They are suitable for level measurement in ventilated tanks and water technology equipment, as well as water level monitoring in rivers, streams, lakes, and dams. These probes can be submerged to a maximum depth of 250 meters, and their stainless steel casing ensures high sealing and robustness.

适用螺纹 SUITABLE THREADS

Threadless design 无螺纹设计
Black POM protective cover 黑色 POM 保护套

电气连接 ELECTRICAL CONNECTION

Level probe with cable connection
液位探头—电缆接线
Polyurethane cable-hose with internal pressure equalization
带内部均压的聚氨酯电缆-软管

CPS SELECTION CODE CPS 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 直径 + 导线长度 + 材质

例: CPS-I2-10-A-D-12-1

电气输出信号
(范围对应缩写编码)

Electrical output signal

额定压力参数

Rated voltage parameters

压力值单位
(单位对应其缩写)

Pressure value unit

液位探头直径
(型号及对应字母)

Direct Level Probe Diameter

导线长度
(型号 / 品牌及对应数字)

Wire length

与介质接触材质
(不同材质对应不同编号)

Material in contact with
the medium

Model + Output Signal + Measuring Range + Unit + Diameter + Wire Length + Material

Example 1 : CPS-I2-10-A-D-12-1

4...20mA I2

0...10V U10

自定义 Customizable

mH₂O A

Ø22mm D

Leitung 长度 (单位: m) (Length in meters, corresponding to model/brand number) Customizable

- 1 1.4404 / AISI 316 L

HUMIDITY AND DEW POINT METER CHT-S

CHT-S 系列测试仪

Humidity/Temperature/Dewpoint transmitter
湿度 -/ 温度 -/ 露点变送器



控制冷凝式干燥剂
Control of condensing dryers

高精度，长期稳定，紧凑型设计，便于安装
多种长度可选，支持露点，温度，湿度三种输出
基于微控技术，露点值经计算输出，抗压力可达
12bar



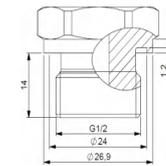
持续测量监控压力气罐中的水分
Continuous measurement and monitoring of moisture in compressed air tanks

High precision, long-term stability, compact design for easy installation.
Available in multiple lengths, supporting three types of outputs: dewpoint,
temperature, and humidity. Based on microcontroller technology,
the dewpoint value is calculated and outputted, with pressure resistance
up to 12 bar.

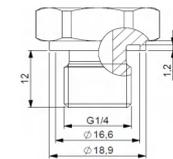
测量元件	半导体芯片 Semiconductor sensor	
电源电压	Supply voltage	12...30 VDC
信号输出	Signal output	4...20mA, 0...10V
负载电阻	Load resistance	typ. 220Ω
响应时间	Response time	典型值 <1 min typ. < 1 min at 20 K measurement steps
错误显示	Error display	3.4 mA
壳体	Housing	304 不锈钢 Stainless steel 304
抗压值	Pressure rating	最高 12bar, 壳体最高 50bar Up to 12 bar, housing up to 50 bar
长度	Probe length	20...45mm, 每 5mm 为一节点 20...45 mm, in 5 mm increments
耐压值	Pressure rating	最高 12bar, 壳体最高 50ba Up to 12 bar, housing up to 50 bar
露点	Dew point	
测量范围	Measurement range	60...+80°C (可视客户需求而定) 60...+80°C (adjustable to customer requirements)
精度	Accuracy	温度 ≤ 40 °C 或 RH > 20%: ±1.5K Temperature ≤ 40°C or RH > 20%: ±1.5 K 温度 > 40°C 或 RH > 20%: ±2K Temperature > 40°C or RH > 20%: ±2 K
温度	Temperature	
测量范围	Measurement range	-40...-80°C
精度	Accuracy	温度 5...+60 °C: ±0.2K Temperature 5...+60°C: ±0.2 K 温度 -40...5 °C 或 60...80°C: ±0.5K Temperature -40...5°C or 60...80°C: ±0.5 K
湿度	Humidity	
测量范围	Measurement range	0...100%RH
精度	Accuracy	湿度 0...10% 或 90...100%时 Humidity 0...10% or 90...100%: up to ±3.0% RH 湿度 10...90% 时 Humidity 10...90%: ±1.8% RH

THREAD SIZE 螺纹尺寸

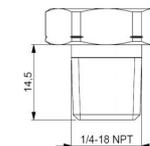
G1/2" Form E DIN1179-2 mit SW27



G1/4" Form E DIN1179-2 mit SW22



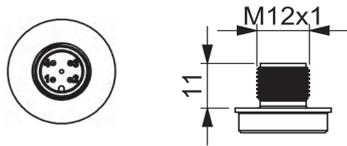
1/4 " NPT



ELECTRICAL CONNECTION

电气接头

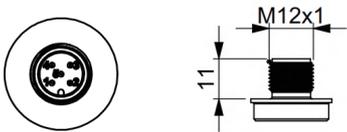
M12/BINDER BINDER S763-4



2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin3=-VDC
Pin4=Signal

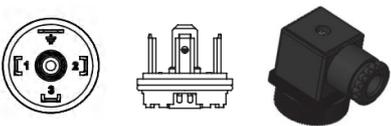
M12X1 (S763)



2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
Pin3=Signal

EN 175301-803-A



2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC

2-Leiter Ausgang
Pin1=+VDC
Pin2=-VDC
Pin3=Signal

CHT-S SELECTION CODE

CHT-S 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 螺纹 + 接头 + 材质

Type + Output Signal + Measuring Range + Unit + Thread + Connector + Material

例: CHT-S-U5-30-A-G-2

Example 1: CHT-S-U5-30-A-G-2

电气输出信号
(范围对应缩写编码)

Electrical Output Signal

4...20mA(1 路露点温度输出) I2 4...20 mA (1 channel dew point temperature output) Code: I2

4...20mA(2 路输出) I3 4...20 mA (2 channels output) Code: I3

4...20mA(3 路输出) I4 4...20 mA (3 channels output) Code: I4

0...10V(1 路露点温度输出) U3 0...10 V (1 channel dew point temperature output) Code: U3

0...10V (2 路输出) U4 0...10 V (2 channels output) Code: U4

0...10V (3 路输出) U5 0...10 V (3 channels output) Code: U5

长度 Length

自定义 Customizable

长度单位
(单位对应其缩写) Length Unit
mm (Unit abbreviation: mA)

mm A

螺纹
(型号及对应字母) Thread

G1/4 DIN 1179-2 A

G1/2 DIN 1179-2 G

1/4 "-18 NPT E

电气接头
(型号 / 品牌及对应数字) Electrical Connector

EN 175301-803-C (MVS-C) 小赫斯曼 0 EN 175301-803-C (MVS-C) Code: 0

M12/Binder S763-4 M12 航插 2 M12/Binder S763-4 M12 circular connector Code: 2

M12/Binder S763-5 M12 航插 3 M12/Binder S763-5 M12 circular connector Code: 3

与介质接触材质
(不同材质对应不同编号) Material in contact with the medium

无 1.4404 / AISI 316 L

DIFFERENTIAL PRESSURE SENSOR SERIE DDPT

DDPT 系列压差传感器



DDPT 系列的压差传感器用于测量空气和干燥的非腐蚀性气体的压差。完全数字化确保了测量范围的切换及安装后的自动归零，可降低偏移误差。

The DDPT series differential pressure sensors are designed for measuring the pressure difference of air and dry, non-corrosive gases. Full digitalization ensures the switching of the measurement range and automatic zeroing after installation, which can reduce offset errors.

测量范围	Measurement Range	0...1 mbar to 0...100 mbar
电气信号	Standard Electrical Signal	0...10 V, 4...20 mA
标准	Standard	带有 Pg 电缆入口的螺旋接线夹 Screw terminals with Pg cable entry

SUITABLE THREADS 适用螺纹

只有 5.6mm 的软管螺纹接套兼容
Only compatible with 5.6 mm hose nipples

ELECTRICAL CONNECTION 电气接头

电缆螺纹套管接头
Cable Gland

DDPT SELECTION CODE DDPT 选型代码

型号 + 输出信号 + 测量范围 + 单位 + 材质	Type+Ausgangsignal+Messbereich+Einheit+Material
例: DDPT-U10-50-K1-3	Example 1 : DDPT-U10-50-K1-3
电气输出信号 (范围对应缩写编码)	Electrical Output Signal 4...20mA I2 0...10V U10
额定压力参数	Rated voltage parameters 自定义
压力值单位 (单位对应其缩写)	Pressure value unit mbar B1 Pa K1
与介质接触材质 (不同材质对应不同编号)	Material in contact with the medium - 3 Silizium 硅

压力接头

直径 3.5mm/5,5mm 软管接头

电气接头

电缆螺纹套管接头

Pressure Fittings

Hose Fittings with a diameter of 3.5mm / 5.5mm

Electrical Connections

Cable Gland

压力接头

直径 3.5mm/5,5mm 软管接头

电气接头

螺旋螺纹接头 (PG 接头)

Pressure Fittings

Hose Fittings with a diameter of 3.5mm / 5.5mm

Electrical Connections

Screw Threaded Connector (PG Connector)

DDPT-I

DDPT-I (电流输出型)



测量元件	Measuring element	硅	Silicon
测量范围	Measurement Range	1...100mbar D 2.5...10mbar D 12.5...50mbar D	
电源电压	Supply Voltage	10...32 VDC	
输出信号	Output Signal	4...20mA, 2-Leiter 两线	
温度范围	Measurement Range	运行温度 -10 ... + 50 ° C 环境温度 -10 ... + 50 ° C 存储温度 -20 ... + 70 ° C	Betriebstemperatur Umgebungstemperatur Lagertemperatur
更多范围可根据客户需求定制	A wider range of options can be customized according to customer requirements.		
精度	Accuracy	+/- 1.5 % FS (可选 < 0,15% FS) 50Pa 时为 +/-3%FS	+/- 1,5 % FS (optional typ. < 0,15%) 50Pa [0,5 mbar] +/-3%FS
耐高压	High-temperature resistanc	5 倍	5 fach
非线性	Non-linear	≤ 1.0 % FS 50Pa 时为 +/-2%FS	
IP 防护等级	IP rating	IP65	
标准	Standards	SA	

DDPT-U

DDPT-U (电压输出型)



测量元件	Measuring element	硅	Silicon
测量范围	Measurement Range	1...100mbar D 2.5...10mbar D 12.5...50mbar D	
电源电压	Supply Voltage	10...32 VDC	
输出信号	Output Signal	0...10V, 3 Leiter. 三线	
温度范围	Measurement Range	运行温度 -10 ... + 50 ° C 环境温度 -10 ... + 50 ° C 存储温度 -20 ... + 70 ° C	Betriebstemperatur Ambient temperature Storage temperature
更多范围可根据客户需求定制	A wider range of options can be customized according to customer requirements.		
精度	Accuracy	+/- 1.5 % FS (可选 < 0,15% FS) 50Pa 时为 +/-3%FS	+/- 1,5 % FS (optional typ. < 0,15%) 50Pa [0,5 mbar] +/-3%FS
耐高压	High-temperature resistanc	5 倍	5 fach
非线性	Non-linear	≤ 1.0 % FS 50Pa 时为 +/-2%FS	
IP 防护等级	IP rating	IP65	
标准	Standards	SA	