

Description



Hygienic pressure transmitter

Hygienic pressure transmitter, designed for food and pharmaceutical industry, is suitable for CIP/SIP cleaning and sterilization. Smart compact design, the welded process diaphragm medium parts is made of high quality stainless steel 316L, roughness≤0.4um, filling fluid with hygiene standard in line with FDA certification, variety of international standard process

Main parameters

Pressure types	Gauge pressure
Measuring range	10kPa-3MPa, please refer to the ordering information chapter
Output signal	4-20mA, 4-20mA+HART, 0.5-4.5VDC, Modbus-RTU/RS485, customer
Reference accuracy	±0.2% URL, ±0.5% URL, customer

Field of application

Pressure, level

Approvals





Measuring medium

Viscous, paste-like, adhesive, crystallising, particulatescontaining and contaminated media

Disclaimer: all the data used in the product description is not legally binding. Relevant technical details may be changed due to further improve



Technical specifications

Measuring range and limit

Nominal value	Smallest calibratable span	Lower range limit (LRL)	Upper range limit (URL)	Overpressure limit *
40kPa	10kPa	-40kPa	40kPa	1MPa
250kPa	40kPa	-100kPa	250kPa	4MPa
1000kPa	250kPa	-100kPa	1000kPa	6MPa
3МРа	1000kPa	-100kPa	3МРа	15MPa

The unit of the measuring range above can be converted into kg/cm²、 MPa and kPa. Provide other measuring range according to requirements. Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, minimum measuring range≤| URV - LRV |≤maximum measuring range.

*Limit value of overpressure: depends on the pressure value of the parts with lowest pressure capacity

Standard specifications and reference conditions

Test standard: GB/T28474 / IEC60770; Zero based-calibration span, Linear output, Silicon oil filling, 316L stainless steel isolated diaphragm.

Performance specifications

The overall performance including but not limited to 【 reference accuracy 】, 【environment temperature effects】 and other comprehensive error

Typical accuracy: ±0.2% URL Stability: ±0.2% URL/ year

Reference accuracy

	Including linearity, hysteresis and repeatability. calibration temperature: 20°C±5°C				
ı	Linear output	Typical value		Nominal value:	
		Max value/ Voltage output	±0 €0/ LIDI	40kPa , 250kPa 1000kPa, 3MPa	

Ambient temperature effects(Typical)

Within the range - 20-80 °C total impact ±0.2%URL/10k

Power supply effects

Zero and span change should not be more than ± 0.005% URL/V when power supply changes in 10.5/16.5-55VDC

Loading effects

Zero and span change should not be more than \pm 0.05% URL/k Ω

Vibration effects

	According to IEC60068-2-6, 10g RMS (25-2000HZ)
Impact resistence	According to IEC60068-2-27, 500g/1ms

Output signal

Signal	Туре	Output
4-20mA	Linearity	Two wire
4-20mA+HART	Linearity	Two wire
0.5-4.5VDC	Linearity	Three wire
Modbus-RTU/RS485	Linearity	Four wire

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Insulation resistance

≥ 20M Ω@, 100VDC

Damping time

Total damping time constant: equal to the sum of damping time of amplifer and sensor capsule Damping time of amplifer: 0-100S adjustable Diaphragm capsule (isolated diaphragm and silicon oil filling) damping time: ≤0.2S Startup after power off: ≤3S (with HART communication: ≤0.2S) Normal services after data recovery: ≤4S (with HART communication: ≤31S)

Environment condition

Items	Operational condition	
Working temperature	-40-85°C	
Storage temperature	-40-100°C	
Media temperature	Hygienic fluid filling: -10-125°C; with heat exchange connector: -10-250°C*	
	Silicon oil filling: -40-120°C, with heat exchange connector: -40-300°Cb	
Working humidity	0-95%RH	
Protection class	IP67	
Dangerous condition ExialICT4(GYB16.1965X)bb		
bUsing heat exchange connector may lead to zero offset and temperature drift. The degree depends on mounting position and filling fluid		

bbPlease consult engineers for details

Technical Specifications

Signal output	4-20mA	4-20mA+HARTb	0.5-4.5VDC	0.5-4.5VDC (ratiometric output)	RS485
Power supply voltage	10-30VDC	10.5/16.5-55VDC	6-15VDC	5VDC	5VDC/9-30VDC
Electric current ≤20.8mA		≤3.5mA		≤7mA	
Load resistance(Ω)	<(U-10)/0.0208	(U-10)/0.0208 <(U-10.5)/0.0208bb		≥5k, recommend 100k	
Transmission distance <1000m		<5m		<1200m	
Power consumption ≤500mW(20.8mA output@24VDC)		≤42mW(0.5-4.5VDC output@12VDC)		≤168mW(RS485 output@24VDC)	

bFor this output type, the load resistance value in communication is 250 Ω

bbThe load resistance value 0-2119 Ω is in nominal working condition, 250-600 Ω is HART communication

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Technical specifications

EMC environment(not for RS485 signal output)

NO.	Test items	Basic standards	Test conditions	Performance level
1	Radiated interference	GB/T 9254/CISPR22	30MHz-1000MHz	ок
2	Conducted interference (DC power port)	GB/T 9254/CISPR22	0.15MHz-30MHz	ок
3	Electrostatic discharge immunity test (ESD)	GB/T 17626.2/IEC61000-4-2	4kV(Contact),8kV(Air)	B(Note2)
4	Immunity to radio frequency EM-fields	GB/T 17626.3/IEC61000-4-3	10V/m(80MHz-1GHz)	A(Note1)
	Power frequency magnetic field Immunity test	GB/T 17626.8/IEC61000-4-8	30A/m	A(Note1)
6	Electrical fast transient / Burst Immunity Test	GB/T 17626.4/IEC61000-4-4	2kV(5/50ns,100kHz)	B(Note2)
7	Surge immunity requirements	GB/T 17626.5/IEC61000-4-5	1kV(Line to line) 2kV(Line to ground) (1.2us/50us)	B(Note2)
	Immunity to conducted disturbances induced by radio frequency fields	GB/T 17626.6/IEC61000-4-6	3V(150kHz-80MHz)	A(Note1)

(Note 1)Performance level A: The preformance within the limits of normal technical specifications.

(Note 2)Performance level B: Temporary reduction or loss of functionality or preformance, it can restore itself. The actual operating conditions, storage and data will not be changed.

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Product selection instruction

Sensor select instruction

Code	Nominal value	Description
S403G	40kPa	Range -40kPa-40kPa, smallest calibratable span 10kPa
S254G	250kPa	Range -100kPa-250kPa, smallest calibratable span 25kPa
S105G	1MPa	Range -0.1MPa-1MPa, smallest calibratable span 100kPa
S305G	3МРа	Range -0.1MPa-3MPa, smallest calibratable span 300kPa

Adjust requirements: lower range value (LRV and upper range value (URV can be adjusted within the scope of the upper and lower range limit, minimum measuring range≤| URV - LRV |≤maximum measuring range

Code	Position	Instruction	
=	Sensor seal	Stainless steel welding seal	

Electrical connection

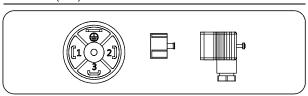
Code	Description
D1	DIN43650 connector, IP65

DIN43650(D1)



Electrical connection

DIN43650(D1)



Label	Two wires	Three wires	Four wires	Modbus-RTU/RS485
1	Power+	Power+	Power+	Power+
2	Power-	Power-	Power-	Power-
3	Key-z	Signal+	Signal+	A+
⊕			Signal-	B-

Note: Key-z is modified zero pressure

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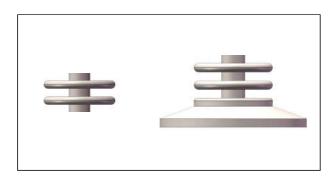


Product selection instruction

Transmission module

Code	Description
F	4-20mA two wire, power supply: 10-30VDC
Н	4-20mA+HART two wire, power supply: 16.5- 55VDC
R	Modbus-RTU/RS485 5V/9-30VDC
5	0.5-4.5VDC three wire, power supply: 6-15VDC
6	0.5-4.5VDC three wire, ratiometric output power supply: 5VDC
А	4-20mA two wire, intrinsic safety, power supply: 10-30VDC

Cooling element connector (HT)



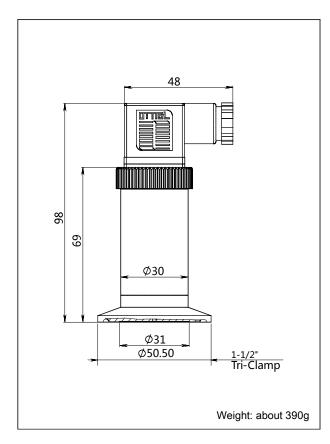
Process connection select instruction

Code	Items	Description
4	Process	Stainless steel, SUS304
6	connector material	Stainless steel, SUS316
NT	Connection type	Standard connection, medium temperature: -25-85°C
HT		Cooling element connector, medium temperature: -40-150°C
F	Isolated filling fluid	Hygienic fluid filling, Neobee M-20, process temperature: -10-180°C
S]	Silicon oil filling, process temperature: -45-205°C
S	Isolated	SUS316L
Н	diaphragm material	Hastelloy C
K01	Process	Tri-Clamp 1-1/2"
K02	connection	Tri-Clamp 2"
K03	specifications	DIN32676 DN32
K04		DIN32676 DN40
K05]	DIN32676 DN50
K06	1	ISO2852 DN38
K07	1	ISO2852 DN40
K08	1	ISO2852 DN51
K09	1	DIN11851 DN25
K10	1	DIN11851 DN40
K11	1	DIN11851 DN50
K12	1	SMS DN1-1/2"
K13	1	SMS DN2"
K14	1	IDF DN1-1/2"
K15]	IDF DN2"
K18]	DRD
K20]	Plug in tube flush hygienic clamp

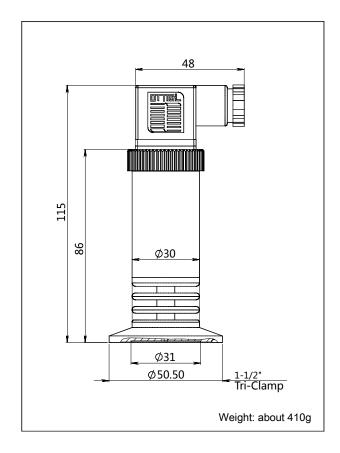
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Standard drawing and dimension with DIN43650 (D1) (unit:mm)

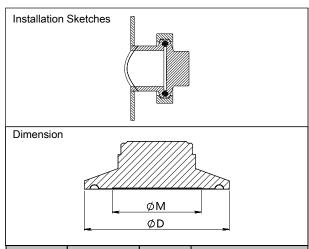


Drawing and dimension with cooling element and DIN43650 (D1) (unit:mm)



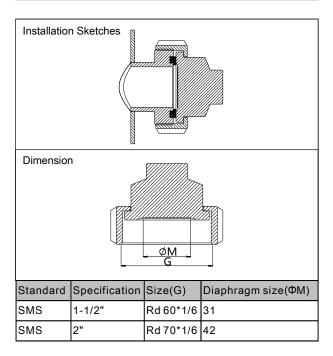


Process connection (K01-K08)(unit: mm)

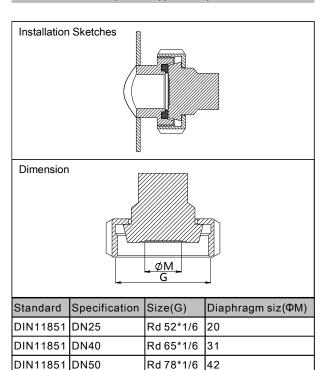


Standard	Specification	Size(ΦD)	Diaphragm size(ΦM)
Tri-Clamp	1-1/2"	50.5	31
Tri-Clamp	2"	64	42
DIN32676	DN32	50.5	31
DIN32676	DN40	50.5	31
DIN32676	DN50	64	42
ISO2852	DN38	50.5	31
ISO2852	DN40	64	42
ISO2852	DN51	64	42

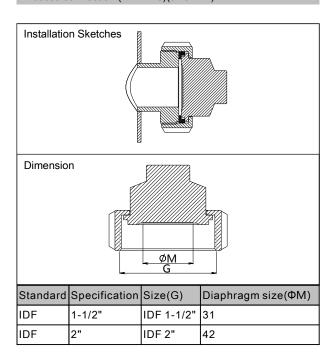
Process connection (K12-K13)(unit: mm)



Process connection (K09-K11)(unit: mm)



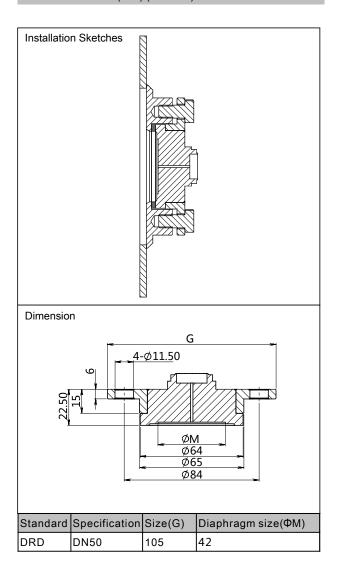
Process connection (K14-K15)(unit: mm)



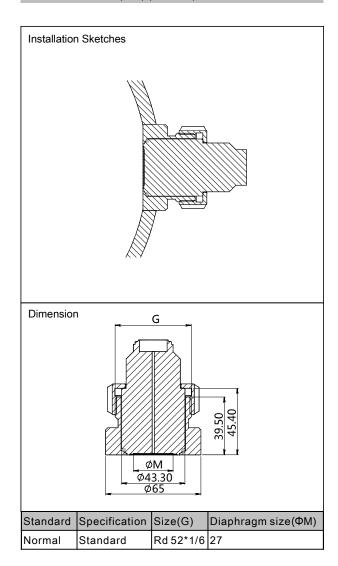
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Process connection (K18) (unit: mm)

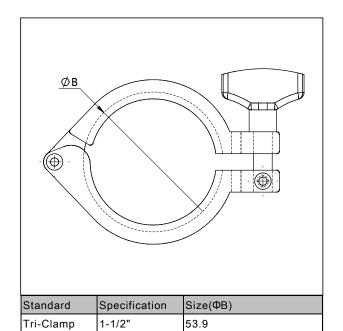


Process connection (K20) (unit: mm)



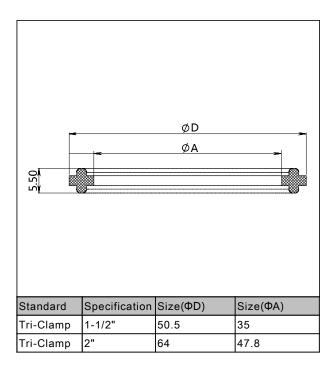


Tri-Clamp (G1-G2) (unit: mm)



67.4

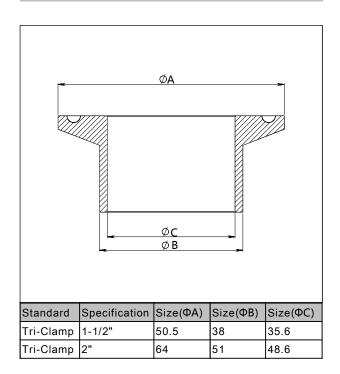
Sealing gasket (M1-M2) (unit: mm)



Welding adapter(Z1-Z1)(unit:mm)

2"

Tri-Clamp



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Ordering information chapter

Pressure range code	Item	Parameters	Code	Instruction	(*) Fast delivery available
Pressure range code		Model	SMP858-TSD	Monosilicon gauge pressure transmitter	
Page	Sensor	Separator	-	Detailed specifications as following	
S105G Nominal value(URL): 1MPa *		Pressure		Nominal value(URL): 40kPa	*
Sansor seal F Stainless steel welding seal		range code	S254G	Nominal value(URL): 250kPa	*
Sensor seal F Stainless steel welding seal			S105G	Nominal value(URL): 1MPa	*
Detailed specifications as following			S305G	Nominal value(URL): 3MPa	*
D1		Sensor seal	F	Stainless steel welding seal	
Connection Cable entry protector R0	Electrical connection	Separator	-	Detailed specifications as following	
Detailed specifications as following			D1	DIN43650 connector, IP65	*
Output signal		_	R0	None	
H	Output	Separator	-	Detailed specifications as following	
R		Output signal	F	4-20mA two wire, power supply: 10-30VDC	*
Separator Detailed specifications as following			Н	4-20mA+HART two wire, power supply: 16.5-55VDC	*
Body tube Separator Detailed specifications as following			R	Modbus-RTU/RS485 5V/9-30VDC	
SVDC A 4-20mA two wire, intrinsic safety, power supply: 10-30VDC			5	0.5-4.5VDC three wire, power supply: 6-15VDC	
Body tube Separator Detailed specifications as following			6		
Tube 53			Α	4-20mA two wire, intrinsic safety, power supply: 10-30VDC	
RTU/RS485 is not available) 65	Body tube	Separator	-	Detailed specifications as following	
RTU/RS485) 85 Stainless steel tube length: 85mm (with HART、Modbus-RU/RTS485) Process connection Process connection Process connector material Connection NT Standard connection, medium temperature: -25-85°C * HT Cooling element connector, medium temperature: -40-150°C Isolated filling fluid RTU/RS485) Stainless steel tube length: 85mm (with HART、Modbus-RU/RTS485) * Connection sas following * * Connection waterial * Connection medium temperature: -25-85°C * HT Cooling element connector, medium temperature: -40-150°C		Tube	53		*
RU/RTS485) Process connection Process 4 Stainless steel, SUS304 connector material Connection type Isolated filling fluid RU/RTS485) Process 4 Stainless steel, SUS304 ** Stainless steel, SUS316 ** Connection type HT Cooling element connector, medium temperature: -40-150°C Hygienic fluid filling, Neobee M-20, process temperature: -40-10-180°C			65		*
Process connector material Stainless steel, SUS304 Stainless steel, SUS316 *			85		
connector material Connection type HT Cooling element connector, medium temperature: -40- 150°C Isolated filling fluid F Hygienic fluid filling, Neobee M-20, process temperature: -10-180°C	Process connection	Separator	-	Detailed specifications as following	
material 6 Stainless steel, SUS316 * Connection type NT Standard connection, medium temperature: -25-85°C * HT Cooling element connector, medium temperature: -40-150°C Isolated filling fluid F Hygienic fluid filling, Neobee M-20, process temperature: -10-180°C	c m C	connector	4	Stainless steel, SUS304	
Connection type NT Standard connection, medium temperature: -25-85°C * HT Cooling element connector, medium temperature: -40- 150°C Isolated F Hygienic fluid filling, Neobee M-20, process temperature: -10-180°C *			6	Stainless steel, SUS316	*
Isolated Filling fluid Filling			NT	Standard connection, medium temperature: -25-85°C	*
Isolated F Hygienic fluid filling, Neobee M-20, process temperature: -10-180°C		type	НТ	, ,	
S Silicon oil filling, process temperature: -45-205℃ *			F	Hygienic fluid filling, Neobee M-20, process temperature:	
			S	Silicon oil filling, process temperature: -45-205°C	*

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Ordering information chapter

Hastelloy C		1	1		,
Hastelloy C		Isolated	S	SUS316L	*
Note			Н	Hastelloy C	
No.			K01	Tri-Clamp 1-1/2", max measuring range 2MPa	*
K03			K02	Tri-Clamp 2", max measuring range 2MPa	
K05			K03	DIN32676 DN32, max measuring range 1.6MPa	
K06			K04	DIN32676 DN40, max measuring range 1.6MPa	
K07			K05	DIN32676 DN50, max measuring range 1.6MPa	
K08			K06	ISO2852 DN38, max measuring range 4MPa	
K09 DIN11851 DN25, max measuring range 2.5MPa K10 DIN11851 DN40, max measuring range 2.5MPa K11 DIN11851 DN50, max measuring range 2.5MPa K12 SMS DN1-1/2", max measuring range 2.5MPa K13 SMS DN2", max measuring range 2.5MPa K14 IDF DN1-1/2", max measuring range 2MPa K15 IDF DN2", max measuring range 2MPa K18 DRD, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa C20 Plug in tube flush hygienic clamp, max measuring range 2MPa C30 Plug in tube flush hygienic clamp, max measuring range 2MPa C40 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C50 Plug in tube flush hygienic clamp, max measuring range 2MPa C60 Plug in tube flush hygienic clamp, max measuring range 2MPa C70 Plug in tube flush hygienic clamp, max measuring range 2MPa C70 Plug in tube flush hygienic clamp, max measuring range 2MPa C70 Plug in tube flush hygienic clamp, max measuring range 2.5MPa C70 Plug in tube flush hygienic clamp, m			K07	ISO2852 DN40, max measuring range 4MPa	
K10			K08	ISO2852 DN51, max measuring range 2.5MPa	
K11 DIN11851 DN50, max measuring range 2.5MPa K12 SMS DN1-1/2", max measuring range 2.5MPa K13 SMS DN2", max measuring range 2.5MPa K14 IDF DN1-1/2", max measuring range 2MPa K15 IDF DN2", max measuring range 2MPa K18 DRD, max measuring range 2.5MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K18 DRD, max measuring range 2.5MPa K19 DRD N2 MPA K10 DRD N2 MP			К09	DIN11851 DN25, max measuring range 2.5MPa	
K12 SMS DN1-1/2", max measuring range 2.5MPa K13 SMS DN2", max measuring range 2.5MPa K14 IDF DN1-1/2", max measuring range 2MPa K15 IDF DN2", max measuring range 2MPa K18 DRD, max measuring range 2.5MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa Additional options Process connection accessory /G1 1.5" Tri-clamp /G2 2" Tri-clamp /M1 1.5" sealing gasket, material: silicon rubber, process temperature range: -60-200°C /M2 2" sealing gasket, material: silicon rubber, process temperature range: -60-200°C			K10	DIN11851 DN40, max measuring range 2.5MPa	
K13 SMS DN2", max measuring range 2.5MPa K14 IDF DN1-1/2", max measuring range 2MPa K15 IDF DN2", max measuring range 2MPa K18 DRD, max measuring range 2.5MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa Additional options - Detailed specifications as following Process connection accessory /G1 1.5" Tri-clamp /G2 2" Tri-clamp /M1 1.5" sealing gasket, material: silicon rubber, process temperature range: -60-200°C /M2 2" sealing gasket, material: silicon rubber, process temperature range: -60-200°C			K11	DIN11851 DN50, max measuring range 2.5MPa	
K14 IDF DN1-1/2", max measuring range 2MPa K15 IDF DN2", max measuring range 2MPa K18 DRD, max measuring range 2.5MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa Additional options Process connection accessory /G1 1.5" Tri-clamp /G2 2" Tri-clamp /M1 1.5" sealing gasket, material: silicon rubber, process temperature range: -60-200°C /M2 2" sealing gasket, material: silicon rubber, process temperature range: -60-200°C			K12	SMS DN1-1/2", max measuring range 2.5MPa	
K15 IDF DN2", max measuring range 2MPa K18 DRD, max measuring range 2.5MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa Additional options - Detailed specifications as following Process connection accessory //G1 1.5" Tri-clamp			K13	SMS DN2", max measuring range 2.5MPa	
K18 DRD, max measuring range 2.5MPa K20 Plug in tube flush hygienic clamp, max measuring range 2MPa Additional options - Detailed specifications as following Process connection accessory /G1 1.5" Tri-clamp			K14	IDF DN1-1/2", max measuring range 2MPa	
K20 Plug in tube flush hygienic clamp, max measuring range 2MPa Additional options - Detailed specifications as following Process connection accessory / G1			K15	IDF DN2", max measuring range 2MPa	
Additional options Separator Detailed specifications as following			K18	DRD, max measuring range 2.5MPa	
Process connection accessory A			K20		
connection accessory /G2 2" Tri-clamp /M1 1.5" sealing gasket, material: silicon rubber, process * temperature range: -60-200°C /M2 2" sealing gasket, material: silicon rubber, process temperature range: -60-200°C		Separator	-	Detailed specifications as following	
accessory /G2 2" Tri-clamp /M1 1.5" sealing gasket, material: silicon rubber, process			/G1	1.5" Tri-clamp	*
/M1			/G2	2" Tri-clamp	
temperature range: -60-200°C			/M1		*
/Z1 Welding adapter for 1-1/2" tri-clamp *	Calibrat report		/M2		
, , , , , , , , , , , , , , , , , , , ,			/Z1	Welding adapter for 1-1/2" tri-clamp	*
/Z2 Welding adapter for 2" tri-clamp			/Z2	Welding adapter for 2" tri-clamp	
Calibration /Q1 Calibration report provided by our company *			/Q1	Calibration report provided by our company	*
Approvals /I1 Intrinsic safety certificate, ExiaIICT4, NEPSI			/I1	Intrinsic safety certificate, ExialICT4, NEPSI	
(multiple) /F3 CE certificate			/F3	CE certificate	
Wetted parts /G1 Ungrease treatment		•	/G1	Ungrease treatment	
treatment /G2 Electropolishing treatment					

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Approvals

Factory certificate

Certification organization	Intertek
Quality management system	ISO9001-2008
IScane at certification	Design and production of pressure transmitter
Registration number	110804039

CE

Certificate organization	ISET
License scope	SMP858 series pressure transmitter
Mark	CE
EMC instruction	2014/30/EU
Standard	EN61326-1: 2013
Registration number	IT051353LG161207

Intrinsic safety certificate

Certification organization name	NEPSI
License scope	SMP858 series pressure transmitter
Explosion-proof mark	ExialICT4
Ambient temperature	-40-+60°C
Medium maximum temperature	+120°C
Registration number	GYB16.1965X
Intrinsically safe	Maximum input voltage: 28VDC
parameter description	Maximum input current: 100mA
	Maximum input power: 0.7w
	Maximum internal equivalent parameters Ci(uF): 0
	Maximum internal equivalent parameters Li(mH): 0







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 $Disclaimer: all\ the\ data\ used\ in\ the\ product\ description\ is\ not\ legally\ binding.\ Relevant\ technical\ details\ may\ be\ changed\ due\ to\ further\ improve$