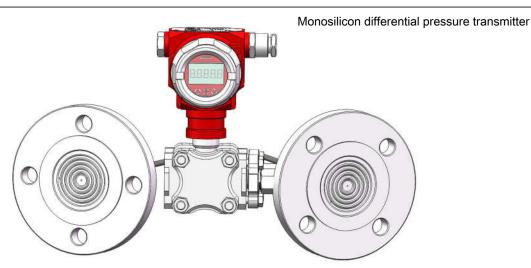


Product introduction

Description



SMP858 monosilicon pressure transmitter is a high performance pressure transmitter with international leading technology meticulously designed by LEEG instrument, using the world's most advanced monosilicon pressure sensor technology and patent encapsulation technology. Monosilicon pressure sensor locates on the top of the metal body and stay away from the medium interface to realizes mechanical isolation and thermal isolation. Glass sintering sensor wire realizes high strength electrical insulation of metal base and improves the capability of flexibility of electronic circuit and transient voltage resistance protection. All these original encapsulation technologies enable SMP858 to easily cope with extreme chemical occasion and mechanical load, and own strong resistance to EMI, sufficient to respond to the most rigorous industrial environment applications, which are the genuine invisible instruments.

Main parameters

Pressure types	Differential pressure
1	4kPa-1MPa, please refer to the ordering information chapter
Output signal	4-20mA, 4-20mA+HART, others
Reference accuracy	±0.2% URL, ±0.5% URL

Measuring medium

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

Field of application

Pressure, level, differential pressure, density, interface, flow

Approvals







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		Lower range limit (LRL)	Upper range limit (URL)		High pressure side overload limit*	Low pressure side overload limit*
40kPa	4kPa	-40kPa	40kPa	10MPa	10MPa	10MPa
250kPa	25kPa	-250kPa	250kPa	10MPa	10MPa	500kPa
1MPa	100kPa	-500kPa	1MPa	10MPa	10MPa	500kPa

Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, when | URV | ≥ | LRV |, needs | URV | ≥ smallest calibratable span; when | URV | ≤ | LRV |, needs | LRV | ≥ smallest calibratable span

*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, silicon oil filling, 316L stainless steel isolated diaphragm, 4-20mA analog output.

Performance specifications

The overall performance including but not limited to 【Reference accuracy】,【Environment temperature effects】,【Static pressure effects】and other comprehensive error

Typical accuracy: ±0.2%URL Stability: ±0.2% URL/ 5 years

Reference accuracy

Including linearity(BFSL), hysteresis and repeatability. calibration temperature: 20 $^{\circ}\text{C}$ ± 5 $^{\circ}\text{C}$			
Linear output accuracy			Nominal value: 40kPa, 250kPa, 1MPa

Square root output accuracy is 1.5 times linear output accuracy

Note 1: TD is Turn down

when $|URV| \ge |LRV|$, TD=URL/|URV|when $|URV| \le |LRV|$, TD=URL/|LRV|

Ambient temperature effects

Within the range - 20-80 °C	L/O 4 LO 4TD\0/ LIDI
totalimpact	±(0.1+0.1TD)% URL

Static pressure effects

Effect on zero	±0.15TD % URL/4MPa
Effect on full scale	±0.2% URL/4MPa

Power supply effects

When power supply voltage is within 10.5/16.5-55VDC, zero and span change should not more than ±0.005%URL/V

Mounting position effects

Install error less than 400Pa, which can be corrected by PV=0 reset.

Vibration effects

According to GB/T1827.3/IEC61298-3,<0.1% URL

Output signal

Two wire 4-20 mA output with digital communications, linear or square root output programmable, HART protocol is superimposed on the 4-20mA signal.

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Technical specifications

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
Damping time of sensor capsule (isolated diaphragm and silicon oil filling)≤0.2S
Startup after power off: ≤6S
Normal services after data recovery : ≤31S

Weight

Net weight: about 6.35 kg (Tri-clamp process connection, without mounting brackets)

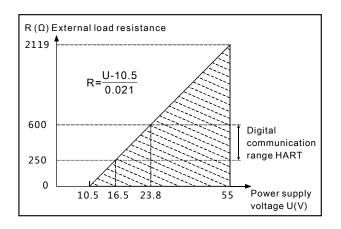
Environment condition

Items	Operational condition	
Working temperature	-40-85°C, LCD display unit: -20-70°C	
Storage temperature	-40-110°C, LCD display unit: -40-85°C	
Media temperature	With silicon oil: -40-120°C	
	With Neobee M-20: -10-180°C	
Working humidity	5-100%RH@40°C	
Protection class	IP67	
Dangerous condition	ExdIICT6(GYB16.1253X)* ExiaIICT4(GYB16.1965X)*	
*Please consult engineers for details		

Power supply

Item	Operating conditions
Standard/flame proof	10.5-55VDC
HART protocol	16.5-55VDC, communication load resistance 250Ω
Load resistance	0-2119Ω for operation, 250-600Ω for HART protocol
Transmission distance	<1000 meters
Power consumption	≤500mW@24VDC,20.8mA

Power supply and load requirements



EMC environment

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)
1	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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Menu function

Specific menu

Transmission module type

Output signal	Local control	Remote control
4-20mA+HART	LCD/3 buttons on body	HART
4-20mA	LCD/3 buttons on body	-

LCD display unit

Display mode	Details
PV	Process variable shows on main screen, percentage and progress bar shows on secondary screen
mA	Current shows on main screen, percentage and progress bar shows on secondary screen
%	Percentage shows on main screen, percentage and progress bar shows on secondary screen

Unit

Unit	Definition	
kPa	Kilopascal	
MPa	Megapascals	
bar	Bar	
psi	Pounds per square inch	
mmHg	Millimetre(s) of mercury@0°C	
mmH2O	Millimeter of water@4°C	
mH2O	Meter of water@4°C	
inH2O	Inches of water@4°C	
ftH2O	Feet of water@4°C	
inHg	Inches of mercury@0°C	
mHg	Meter mercury column@0°C	
TORR	Torr	
mbar	Millibar	
g/cm2	Gram per square centimeter	
kg/cm2	Kilogram per square centimeter	
Ра	PA	
АТМ	Standard atmospheric pressure	
mm	Millimeter(Note1)	
m	Meter(Note1)	
Note1: length unit need mark medium density		

Measuring menu set

Mark	State	
URV	Upper range value, 20mA	
LRV	V Lower range value, 4mA	

Damping time

Units	Setting range	
S	0-100	

Analog output type

Parameters	Output type		
mA LINER	Linearity		
mA √	Square root		

Alarm signal

Parameters	Alarm signal	
ALARM NO	None	
ALARM H	20.8mA	
ALARM L	3.8mA	

Fix output

Parameters	Fix output value		
FIX/C NO	None		
3.8000	3.8000mA		
4.0000	4.0000mA		
8.0000	8.0000mA		
12.000	12.000mA		
16.000	16.000mA		
20.000	20.000mA		
20.800	20.800mA		

Quick menu

Parameter	Instruction
PV=0	Set current output to zero value, used to correct the error cased by static pressure and installation.
Zero adjustment	4mA re-range with pressure
Span adjustment	20mA re-range with pressure
Restore factory setting	Restore backup data when error

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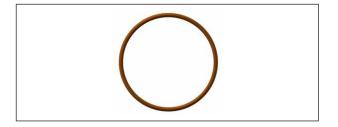
Product selection instruction

Sensor select instruction

Code	Nominal value	Description	
S403D	40kPa	Range -40kPa-40kPa, smallest calibratable span 4kPa	
S254D	250kPa	Range -250kPa-250kPa, smallest calibratable span 25kPa	
S105D	1MPa	Range -500kPa-1000kPa, smallest calibratable span 100kPa	

Code Position		Position	Instruction
	I I		O-ring, FKM, process temperature: -20-200°C

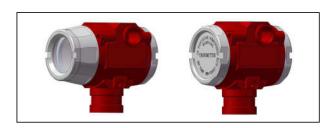
Seal(S)



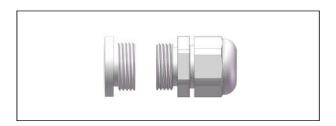
Electrical connection select instruction

Code	Item Description	
T1	Electrical connection	Aluminum-alloy terminal, 2 cable entry M20*1.5(F), red body, white cover
R1		Waterproof connector M20X1.5 one side , blind plug another side, PVC material,6-8mm diameter cable only, IP67
R2	Cable entry protector	Flame proof, 1/2 NPT(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67
R3		Flame proof, M20X1.5(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67

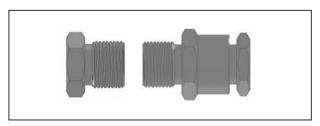
Housing(T1)



Standard cable entry protective adaptor(R1)



Flame proof cable entry protective adaptor(R2/R3)



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Product selection instruction

Transmission module

Code	Items	Description
F	Output signal	4-20mA two wire, power supply: 10.5-55VDC
Н		4-20mA+HART two wire, power supply:16.5-55VDC
Α	Display	Without display
С		With LCD display

Display module (C)



Terminals(N1)



Process connection select instruction

Connection	HL	High, low-pressure side connection	
position	/H	High-pressure side conection(High- pressure side value≠ low-pressure side value)	
Connection type	С	Capillary transmission	
Capillary type	M2	Armoured SUS304, outer diameter: 3.5mm XX value range: 00-10,samples: 02=2 meters; 10=10meter	
Capillary length	XX		
Isolated filling fluid	S	Silicon oil, process temperature: -45-205°C	
	Н	High-temperature silicon oil, process temperature: 0-315°C	
	F	Hygienic fluid, Neobee M-20, process temperature: -10-180°C	

Wetted parts	4	SUS304
material	6	SUS316
Diaphragm	S	SUS316L
material	Н	Hastelloy C
Flange specifications	H01	HG/T 20592-2009, DN50PN10 raised face flange
	H05	HG/T 20592-2009, DN80PN10 raised face flange
	H06	HG/T 20592-2009, DN100PN10 raised face flange
	K01	Tri-Clamp 1-1/2"
	K02	Tri-Clamp 2"
Insert tube	D00	None
diameter	D01	Diameter:66mm, length:50mm
Connection position	/L	Low-pressure side connection (High-pressure side value + low- pressure side value)
Connection type	С	Capillary transmission
Capillary type	M2	Armoured SUS304, outer diameter 3.5mm
Capillary length	XX	XX value range: 00-10,samples: 02=2 meters; 10=10meters
Isolated filling fluid	S	Silicon oil, process temperature: -45-205°C
	Н	High-temperature silicon oil, process temperature: 0-315°C
	F	Hygienic fluid, Neobee M-20, process temperature: -10-180°C
Wetted parts	4	SUS304
material	6	SUS316
Diaphragm	S	SUS316L
material	Н	Hastelloy C
Flange specifications	H01	HG/T 20592-2009, DN50PN10 raised face flange
	H05	HG/T 20592-2009, DN80PN10 raised face flange
	H06	HG/T 20592-2009, DN100PN10 raised face flange
	K01	Tri-clamp 1-1/2"
	K02	Tri-clamp 2"
Insert tube	D00	None
diameter	D01	Diameter:66mm, length:50mm

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Product selection instruction

Brackets

Code	Item	Description
B1	Fixed mounting	Pipe mounting bent bracket,2" pipe, carbon steel, apply to H-structure
B2		Plate mounting bent bracket, carbon steel, apply to H-structure
В3		Pipe mounting flat bracket,2" pipe, carbon steel, apply to H-structure

Pipe mounting bent bracket(B1)

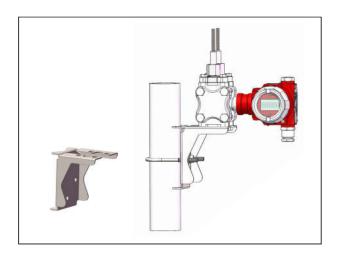
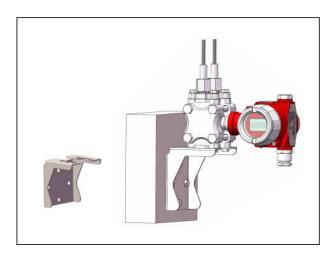
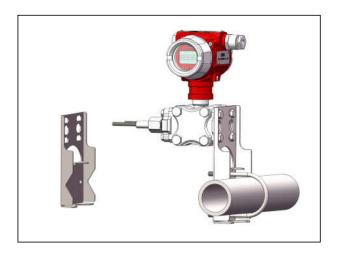


Plate mounting bent bracket(B2)



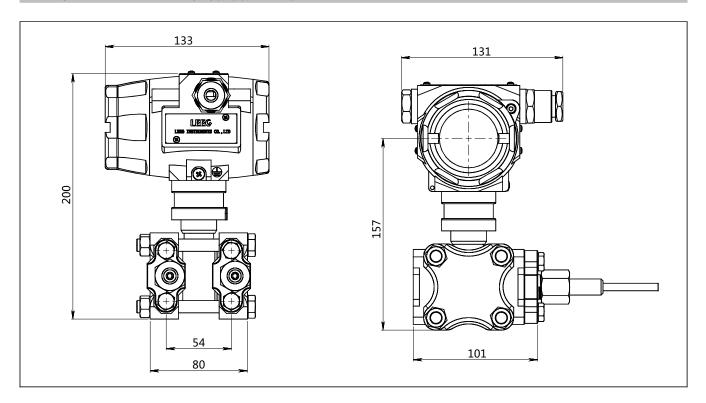
Pipe mounting flat bracket(B3)



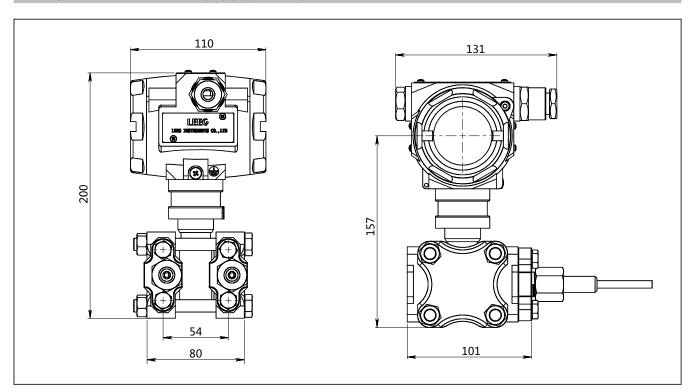
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Drawing and dimension with display(C) (unit:mm)



Drawing and dimension without display (A) (unit:mm)



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Pipe mounting bent bracket (B1)drawing and dimension (unit:mm)

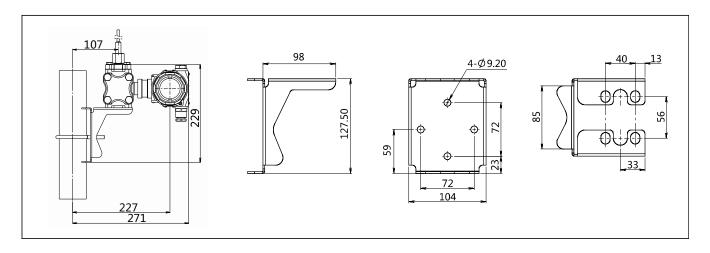
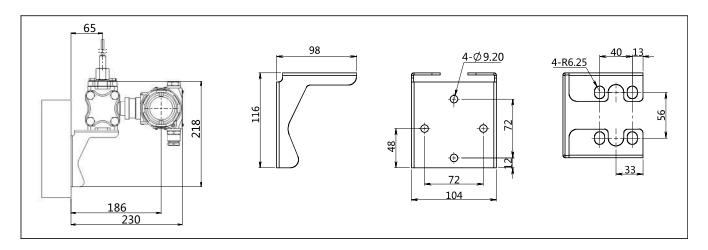
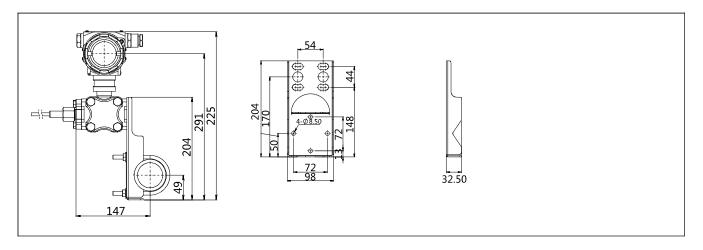


Plate mounting bent bracket(B2)drawing and dimension (unit:mm)



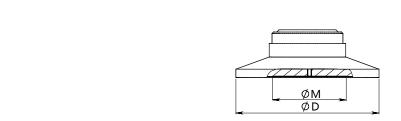
Pipe mounting flat bracket (B3)drawing and dimension (unit:mm)



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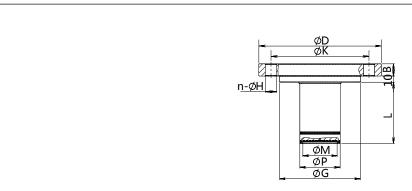


Process connection (K01-K02)(unit: mm)



Standard	Specification	Size(ΦD)	Corrugation size(ФМ)
Tri-Clamp	1-1/2"	50.5	31
Tri-Clamp	2"	64	42

Process connection (D01-D03)(unit: mm)



Standard	Specification	Outer diameter(ΦD)	Thickness(B)	Raised face diameter(ΦG)
HG/T20592-2009	DN80PN10	200	20	138
HG/T20592-2009	DN80PN10	200	20	138
HG/T20592-2009	DN80PN10	200	20	138
Hole circumference(ΦK)	Number(n)	Hole diameter(ΦH)	Insert tube diameter(ΦP)	Insert tube length(L)
160	8	18	66	50
160	8	18	66	100
160	8	18	66	150

Corrugation size(ΦM)

42

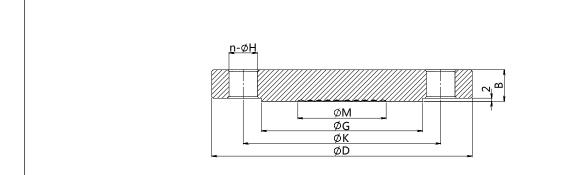
42

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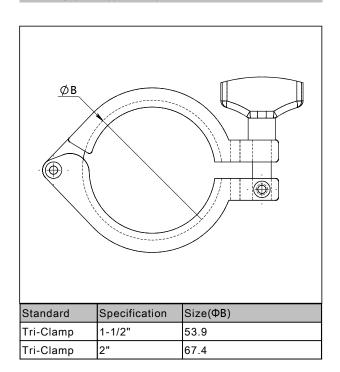


Process connection (H01, H05-H06) (unit: mm)

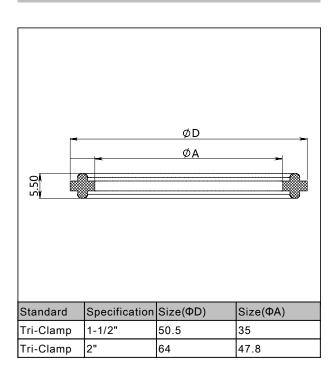


Standard	Specification	Outer diameter (ΦD)	Thickness (B)	Hole circumference (ΦK)
HG/T20592-2009	DN50PN10	165	19	125
HG/T20592-2009	DN80PN10	200	20	160
HG/T20592-2009	DN100PN10	200	20	160
Raised face diameter(Φ)	Hole diameter(ΦH)	Number(n)	Corrugation size(ΦM)	
102	18	4	42	
138	18	8	42	
158	18	8	42	

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



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

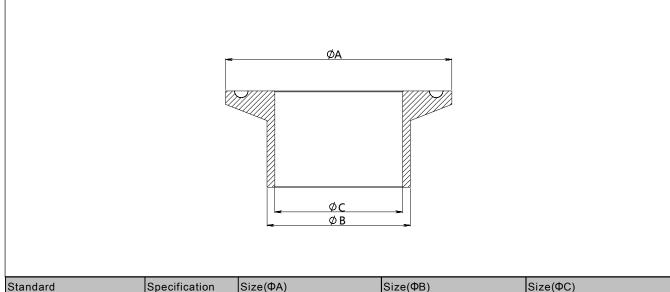


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Welding adapter(Z1-Z2) (unit: mm)



Standard	Specification	Size(ΦA)	Size(ΦB)	Size(ΦC)
Tri-Clamp	1-1/2"	50.5	38	35.6
Tri-Clamp	2"	64	51	48.6

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Ordering information chapter

Item	Parameters	Code	Instruction	(*) fast delivery available
	Model	SMP858-DST	Monosilicon differential pressure transmitter	
Sensor	Separator	-	Detailed specifications as following	
	Pressure	S403D	Nominal value(URL): 40kPa	*
	range code	S254D	Nominal value(URL): 250kPa	*
		S105D	Nominal value(URL): 1MPa	*
Electrical connection	Separator	-	Detailed specifications as following	
	Electrical connection	T1	Aluminum-alloy terminal,2 cable entry M20*1.5(F), red body, white cover	*
	Cable entry protector	R1	Waterproof connector M20X1.5 one side , blind plug another side, PVC material, 6-8mm diameter cable only, IP67	*
		R2	Flame proof, 1/2 NPT(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67	
		R3	Flame proof, M20X1.5(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67	*
Output	Separator	-	Detailed specifications as following	
	Output signal	F	4-20mA two wire, power supply: 10.5-55VDC	*
		Н	4-20mA+HART two wire, power supply: 16.5-55VDC	*
	Display	А	Without LCD display	
		С	LCD display	*
Process connection	Separator	-	Detailed specifications as following	
	Connection position	HL	High, low-pressure side connection(High-pressure side value=low-pressure side value)	
		/H	High-pressure side connection (High-pressure side value≠ low-pressure side value)	
	Connection type	С	Capillary transmission	*
Process	Capillary type	M2	Armoured SUS304, outer diameter 3.5mm	*
connection (High-pressure	Capillary length	xx	XX value range: 00-10, samples: 02=2 meters; 10=10meters	
side)	Isolated	S	Silicon oil, process temperature: -45-205°C	*
	filling fluid	Н	High-temperature silicon oil, process temperature: 0-315°C	
		F	Neobee M-20, process temperature: -10-180°C	*
	Wetted	4	SUS304	*
	parts material	6	SUS316	
	Diaphragm	S	SUS316L	*
	material	Н	Hastelloy C	

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Ordering information chapte

	Flange	H01	HG/T 20592-2009, DN50PN10 raised face flange	*
	specifications		(Measuring range: 10kPa-1MPa)	
		H05	HG/T 20592-2009, DN80PN10 raised face flange (Measuring range: 10kPa-1MPa)	*
		H06	HG/T 20592-2009, DN100PN10 raised face flange (Measuring range: 10kPa-1MPa)	*
		K01	Tri-Clamp 1-1/2"(Measuring range: 30kPa-1MPa)	*
		K02	Tri-Clamp 2"(Measuring range: 30kPa-1MPa)	*
	Insert tube	D00	None	
	diameter	D01	Diameter: 66mm, length: 50mm	*
	Connection position	/L	/L Low-pressure side connection(High-pressure side value* * low-pressure side value)	
	Connection type	С	Capillary transmission	
	Capillary type	M2	Armoured SUS304, outer diameter 3.5mm	
	Capillary length	XX	XX value range: 00-10, samples: 02=2 meters; 10=10meters	
	Isolated	S	Silicon oil, process temperature: -45-205°C	*
	filling fluid	Н	High-temperature silicon oil, process temperature: 0-315°C	
Process connection		F	Neobee M-20, process temperature: -10-180°C	*
(Low-	Wetted parts	4	SUS304	*
pressure side, while the	material	6	SUS316	
parameters of		S	SUS316L	*
two pressure sides are not	material	Н	Hastelloy C	
the same	Flange specifications	H01	HG/T 20592-2009, DN50PN10 raised face flange (Measuring range: 10kPa-1MPa)	*
		H05	HG/T 20592-2009, DN80PN10 raised face flange (Measuring range: 10kPa-1MPa)	*
		H06	HG/T 20592-2009, DN100PN10 raised face flange (Measuring range: 10kPa-1MPa)	*
		K01	Tri-Clamp 1-1/2"(Measuring range: 30kPa-1MPa)	*
		K02	Tri-Clamp 2"(Measuring range: 30kPa-1MPa)	*
	Insert tube diameter	D00	None	
		D01	Diameter:66mm, length:50mm	*
Additional options	Separator	-	Detailed specifications as following	
	Fixed mounting accessory	/B1	Pipe mounting bent bracket, 2" pipe, carbon steel, apply to H-structure	*
		/B2	Plate mounting bent bracket, carbon steel, apply to H-structure	*
		/B3	Pipe mounting flat bracket, 2" pipe, carbon steel, apply to H-structure	*
	Process	/G1	1.5" Tri-Clamp	*
	connection	/G2	2" Tri-Clamp	
	accessory	/M1	1.5" sealing gasket	*
		/M2	2" sealing gasket	

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Ordering information chapter

			<u> </u>	
		/Z1	Welding adapter for tri-clamp 1-1/2"	*
		/Z2	Welding adapter for tri-clamp 2"	
	Display mode	/D1	According to your requirement	
	Calibration	/Q1	Calibration report provided by our company	*
	report	/Q2	Calibration report provided by chinese authorised third party	
		/Q3	Static pressure report (Differential pressure only)	
	(multiple)	/E1	Flame proof certificate, ExdIICT6, NEPSI	*
		/I1	Intrinsic safety certificate, ExiaIICT4, NEPSI	
		/F3	CE certificate	
	treatment	/G1	Ungrease treatment	
		/G2	Electropolishing treatment	

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Factory settings and parameters

Item	Menu mark	Factory setting value
Tag position	None	0(No specific settings)
Analog output type	mA	Liner(No specific settings)
Display mode	DISP	PV(No specific settings)
Alarm signal	ALARM	No(No specific settings)

Item	Menu mark	Factory setting value
Damping value	DAMP	0(No specific settings)
4mA Lower range value	LRV	According to the order
20mA Upper range value	URV	According to the order
Process unit	U	According to the order

Approvals

Factory certificate

Certification organization	Intertek
Quality management system	ISO9001-2008
ISCORD OF CARTIFICATION	Design and production of pressure transmitter
Registration number	110804039

Intrinsic safety certificate

Certification organization name	NEPSI
Licenses range	SMP858 series pressure transmitter
Explosion-proof mark	ExiaIICT4
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 parametersCi(uF): 0
	Maximum internal equivalent parametersLi(mH): 0.01

CE

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

Flame proof certificate

Certificate organization	NEPSI
License scope	SMP858 series pressure transmitter
Explosion-proof mark	ExdIICT6
Working environmental temperature	-25-+60°C
Maximum medium temperature	+80°C
Registration number	GYB16.1253X









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