Brief introduction



SMP858-NSF monosilicon pressure transmitter is the best hygienic pressure transmitter meticulously designed by LEEG Instrument, with the world's most advanced silicon pressure sensor technology and patent encapsulation process. SMP858-NSF adopts full isolation seal structure to eliminate the humidity effects, suitable for severe wet cleaning occasion; double

diaphragm overload protection structure to achieve the highest overload pressure 24MPa, suitable for severe pressure overload situations; strong transient voltage resistance to meet the standards of level 4 (Differential mode voltage: 2000V, common mode voltage: 4000V), suitable for severe surge voltage occasion; seven temperature regions, 20 linearity points and 160 pressure calibration points, suitable for severe temperature change occasion. Those leading manufacturing technologies redifine the best quality of hygienic pressure transmitter.

Main parameters

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

Measuring medium

Viscous, paste-like, adhesive, crystallising, particulatescontaining and contaminated media **Field of application**

Pressure and level measurement

Approvals

CE MC

Technical Specifications

Measuring range and limit

Nominal value	Smallest calibratable span	e e	Upper range limit (URL)			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 ower range limit, when URV ≥ LRV , needs URV ≥ smallest calibratable span when URV ≤ LRV , needs LRV ≥ smallest calibratable span when URV ≤ LRV , needs LRV ≥						

*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 basedcalibration 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°C±5°C		
	Td≤10(note 1)		Nominal value:
output accuracy	Max value	±0.5% URL	40kPa,250kPa 1MPa
Square root output accuracy is 1.5 times linear outp accuracy			nes linear output
Note 1: TD is Turn down when URV ≥ LRV , TD=URL/ URV when URV ≤ LRV , TD=URL/ LRV			

Ambient temperature effects

Within the range -20-80°C total ±(0.1+0.15TD)% URL impact

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.

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

Diaphragm capsule (isolated diaphragm and silicon oil filling)

Startup after power off: ≤6S

damping time: ≤0.2S

Normal services after data recovery: ≤31S

Weight

Net weight: about 2.4kg(Tri-Clamp process connection accessory, without mounting brackets)

Environment condition

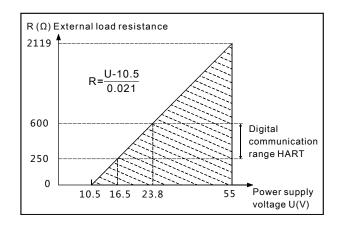
Items Operation condition	
Working temperature	-40-85°C, integrated LCD display: - 20-70°C
Storage temperature	-40-110℃, integrated LCD display: -40-85℃
Media temperature	With silicon oil: -40-120°C
	With Neobee M-20: -10-180°C
Working humidity	5-100%RH@40°C
Protection class	IP67
Dangerous condition	ExiaIICT4(GYB16.1965X)

EMC environment

Power supply

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

Power supply and load requirements



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)
5	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)
8	Immunity to conducted disturbances GB/T 17626.6/IEC61000-4-6 3V(150kHz-80MHz) A(Note1) induced by radio frequency fields A			
(Not	e 1)Performance level A: The preformance w e 2)Performance level B: Temporary reducti ating conditions, storage and data will not be	on or loss of functionality or pr		f. The actual

Menu function

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℃
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
Pa	РА
АТМ	Standard atmospheric pressure
mm	Millimeter(Note1)
m	Meter(Note1)
Note1: len	gth unit need mark medium density

Measuring menu set

Mark	State
URV	Upper range value, 20mA
LRV	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



Product selection instruction

Sensor type

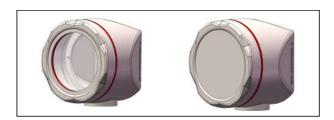
Code	Nominal value	Description
S403D	40kPa	Range -40kPa-40kPa, smallest calibratable span 4kPa
S254D	250kPa	Range -250kPa-250kPa, smallest calibratable span 25kPa
S105D	1MPa	Range -500kPa-1000kPa, smallest calibratable span 100kPa

Code	Position	Instruction
F	Sensor seal	Stainless steel welding seal

Electrical connection select instruction

Code	Item	Description
F1 F2	connection	Stainless steel terminal, aviation plug M12*1(4 pin) (H2), IP67, vertical mounting Stainless steel terminal, aviation plug M12*1(4 pin) (H2), IP67, horizontal mounting

Housing(F1)



Housing(F2)

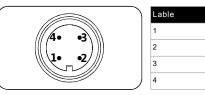


Aviation plug, M12*1,4 pin(H2)



Aviation plug, M12*1,4 pin(H2)

Aviation plug, M12*1,4 pin(H2)



Lable	Two wire
1	Power+
2	
3	
4	Power-

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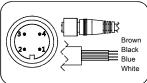
Diaphragm(S)



Product selection instruction

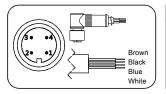
Electrical connection accessories

Aviation plug straighter(J1)



Label	Two wires
1/Brown	Power+
2/White	
3/Blue	
4/Black	Power-

Aviation plug elbow(J2)

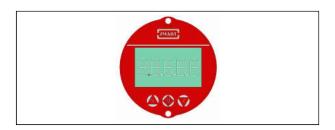


Label	Two wires
1/Brown	Power+
2/White	
3/Blue	
4/Black	Power-

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
A	Display	Without display
С		With LCD display

Display module(C)



Process connection select instruction

Connection	HL	High, low-pressure side connection
position	/H	High-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 Iength	хх	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	Neobee M-20, process temperature: -10-180°C
Wetted parts	4	SUS304
material	6	SUS316
Diaphragm material	S	SUS316L
	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	хх	XX value range: 00-10, samples: 02=2 meters; 10=10meters

Product selection instruction

Process connection select instruction

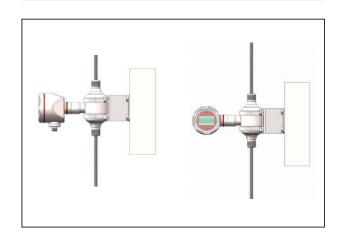
	4	SUS304
Wetted parts material	4	505304
	6	SUS316
Diaphragm material	S	SUS316L
	н	Hastelloy C
Flange specifications	H01	HG/T 20592-2009, DN50PN10 raised face flange
	H05	HG/T 20592-2009, DN80PN10 raised face flange
	H06	HG/T 20592-2009, DN100PN10 raised face flange
	K01	Tri-Clamp 1-1/2"
	K02	Tri-Clamp 2"
Insert tube diameter	D00	None
	D01	Diameter: 66mm, length: 50mm

Product selection instruction

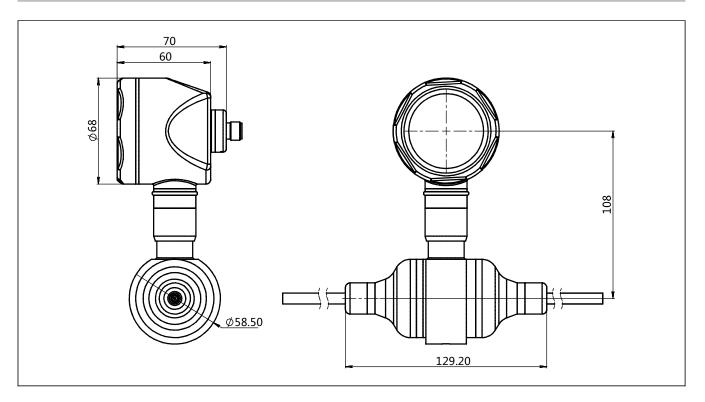
Fixed mounting accessory select instruction

Code	Item	Description
	accessory	U-shape bracket, apply to dual remote products without process flanges

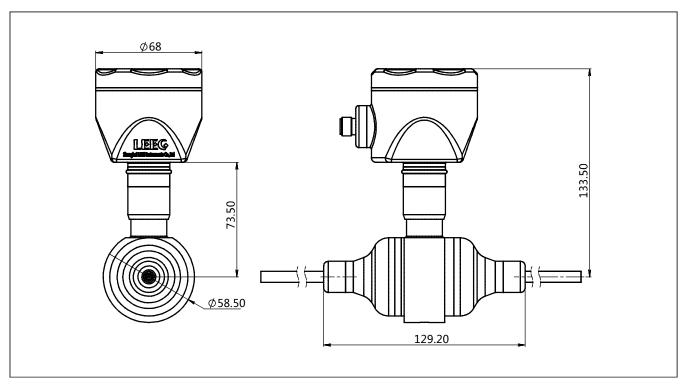
Fixed mounting bracket (B5)



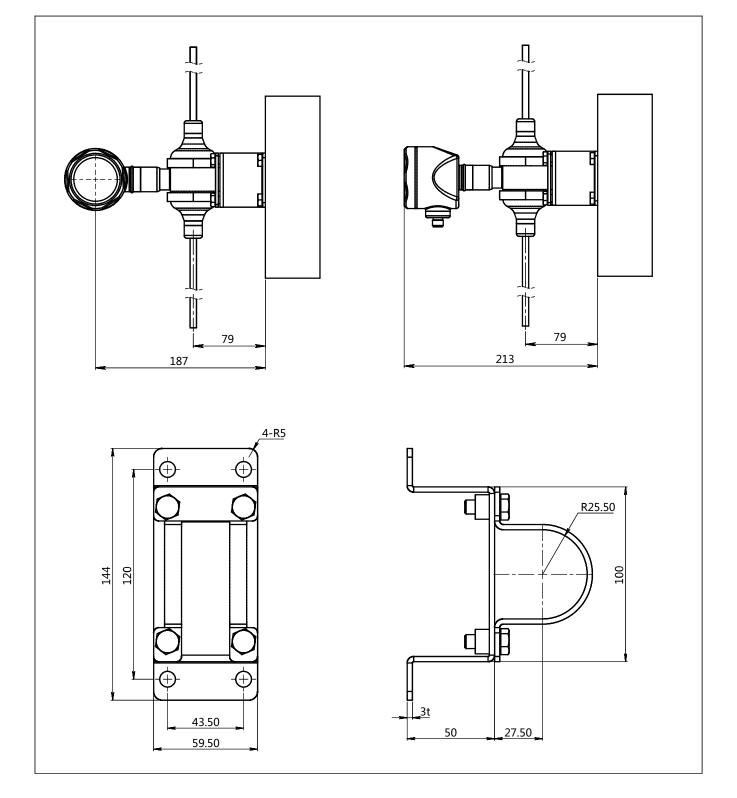
Drawing and dimension with display (C) / without display (A) vertical installation (F1) (unit: mm)



Drawing and dimension with display (C) / without display (A) horizontal installation (F2) (unit: mm)



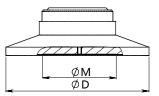
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Fixed mounting bracket (B5) drawing and dimension (unit: mm)

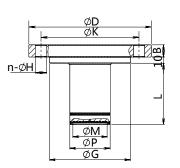
SMP858–NSF Monosilicon differential pressure transmitter

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



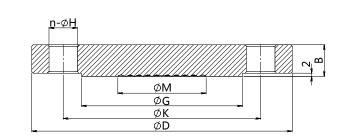
Standard	Specification	Size(ΦD)	Corrugation size(ΦM)
Tri-Clamp	1-1/2"	50.5	31
Tri-Clamp	2"	64	42

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



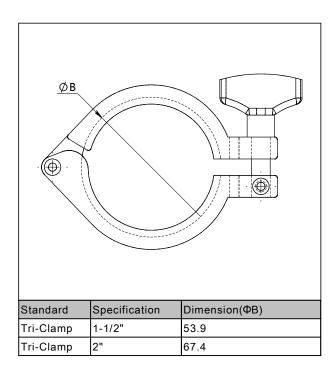
				-	
Standard	Specification	Outer diameter(ΦD)	Thickness(B)	Raised face diameter(ΦG)	Hole circumference(ΦK)
HG/T20592-2009	DN80PN10	200	20	138	160
HG/T20592-2009	DN80PN10	200	20	138	160
HG/T20592-2009	DN80PN10	200	20	138	160
Number(n)	Hole diameter(ΦH)	Insert tube diameter(ΦP)		Insert tube length(L)	Corrugation size(ΦM)
8	18	66		50	42
8	18	66		100	42
8	18	66		150	42

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

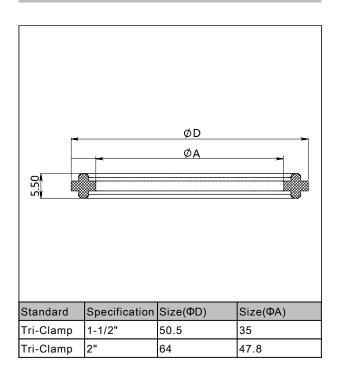


Standard	Specification	Outer diameter(ΦD)	Thickness(B)	Hole circumference(ΦK)
HG/T20592-2009	DN50PN10	165	19	125
HG/T20592-2009	DN80PN10	200	20	160
HG/T20592-2009	DN100PN10	200	20	160
Raised face diameter(ΦG)	Hole diameter(ΦH)	Number(n)	Corrugation size	(ΦM)
102	18	4	42	
138	18	8	42	
158	18	8	42	

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

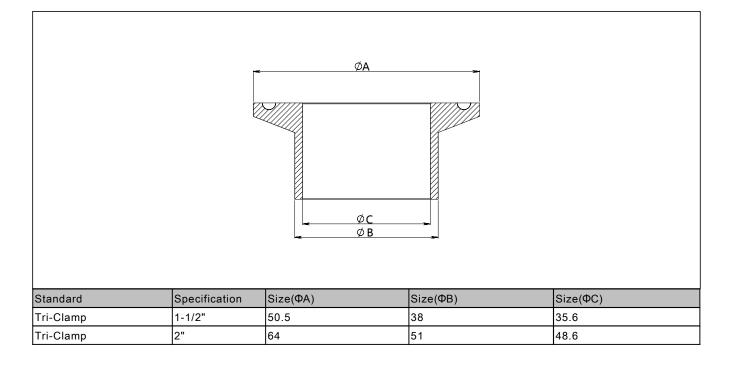


Sealing gasket(M1-M2)(unit: mm)





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





Ordering information chapter

Item	Parameters	Code	Instruction	(*) fast delivery available
	Model	SMP858-NSF	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	*
	Sensor seal	F	Stainless steel welding seal	
Electrical connection	Separator	-	Detailed specifications as following	
	Electrical connection	F1	Stainless steel terminal, aviation plug M12*1 (4 pin) (H2), IP67, vertical mounting	*
		F2	Stainless steel terminal, aviation plug M12*1 (4 pin) (H2), IP67, horizontal mounting	*
	Cable entry protector	RO	None	
Output	Separator	-	Detailed specifications as following	
	Output signal	ut signal F 4-20mA two wire, power supply: 10.5-55VDC		*
		Н	4-20mA+HART two wire, power supply: 16.5-55VDC	
	Display C		LCD display	*
		А	Without LCD display	
Process connection	Separator	-	Detailed specifications as following	
Process Connection connection position		HL	High, low-pressure side connection(High-pressure side value=low-pressure side value)	
(High- pressure side		/Н	High-pressure side conection(High-pressure side value≠ low-pressure side value)	
	Connection C type		Capillary transmission	*
	Capillary type	M2	Armoured SUS304, outer diameter 3.5mm	*
	Capillary length	хх	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	
		F	Neobee M-20, process temperature: -10-180°C	*
	Wetted parts	4	SUS304	*
	material	6	SUS316	
	Diaphragm	s	SUS316L	*
	material	Н	Hastelloy C	
	Flange specifications (Note1)	H01	HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa)	*
	(



Ordering information chapter

connection position low-pressure side value) value (Low-pressure side value) Connection C Capillary transmission * capillary type M2 Armoured SUS304, outer diameter 3.5mm * Capillary type M2 Armoured SUS304, outer diameter 3.5mm * Capillary type M2 Armoured SUS304, outer diameter 3.5mm * Capillary type M2 Stilicon oil, process temperature: 10=10meters * Isolated Solated Silicon oil, process temperature: -45-205°C * * Isolated filling fluid H High-temperature silicon oil, process temperature: -0-315°C * Wetted parts SUS304 * * material G SUS316 * Diaphragm material H Hastelloy C * Flange specifications H01 HG/T 20592-2009, DN50PN10 raised face flange(Max * Mote1) H05 HG/T 20592-2009, DN10PN10 raised face flange(Max * measuring range: 1MPa) H06 HG/T 20592-2009, DN10PN10 raised face flange(Max * Mote1 H06 HG/T 20592-2009, DN10PN10 raised fa		i	i	1	
Non-section of the section of the sectin sectin of the section of the section of the section of the sec			H05		*
K02 Tri-Clamp 2'(Max measuring range: 2MPa) * Insert tube diameter D00 None * D01 Diameter: 66mm, length: 50mm * Process Connection position /L Low-pressure side connection(High-pressure side value# * Connection pressure side) Connection C Capillary transmission * Capillary type M2 Armoured SUS304, outer diameter 3.5mm C Capillary Capillary type M2 Armoured SUS304, outer diameter 3.5mm C * Capillary type M2 Armoured SUS304, outer diameter 3.5mm C * Capillary type M2 Armoured SUS304, outer diameter 3.5mm * * Capillary type M2 Armoured SUS304, outer diameter 3.5mm * * Capillary type S Silicon oil, process temperature: -10-10meters * * Texted parts 4 SUS304 * * * * Diaphragm material S SUS316 * * * *			H06		*
Insert tube diameter D00 None # Process Connection position //L Low-pressure side connection(High-pressure side value# * (Low- pressure) Connection //L Low-pressure side value) * (Low- pressure) Connection C Capillary transmission * (Low- pressure) Connection Capillary type M2 Amoured SUS304, outer diameter 3.5mm * Capillary type M2 Amoured SUS304, outer diameter 3.5mm * * Capillary type M2 Amoured SUS304, outer diameter 3.5mm * * Isolated filling fluid 5 Silicon oil, process temperature: -45-205°C * * Wetted parts material 5 Silicon oil, process temperature: -10-180°C * * Piophragm material 5 SUS316 * * * Diaphragm material 6 SUS316 * * * HO1 Hastelloy C * * * * * Note1 H05			K01	Tri-Clamp 1-1/2"(Max measuring range: 2MPa)	*
diameter DD1 Diameter: 66mm, length: 50mm Image: 50mm Process connection position Connection option /L Low-pressure side value) * Connection pressure side Connection (yep e) C Capillary transmission * Capillary type M2 Amoured SUS304, outer diameter 3.5mm * Capillary type M2 Amoured SUS304, outer diameter 3.5mm * Capillary type M2 Amoured SUS304, outer diameter 3.5mm * Capillary type M2 Amoured SUS304, outer diameter 3.5mm * Isolated filling fluid S Silicon oil, process temperature: -05:205°C * Isolated filling fluid S Silicon oil, process temperature: -01:180°C * Wetted parts A SUS316 * * Insert it ide S SUS316L * * Material H01 HC/T 20592-2009, DNSOPN10 raised face flange(Max measuring range: 1MPa) * * Note1) H05 HC/T 20592-2009, DNSOPN10 raised face flange(Max measuring range: 1MPa) * *			К02	Tri-Clamp 2"(Max measuring range: 2MPa)	*
Connection position D01 Diameter: 66mm, length: 50mm Process connection position /L Low-pressure side connection(High-pressure side value# (Low- pressure side) Connection twp ressure side) Connection (Due transmission # Capillary type (aptilize) C Capillary transmission # Capillary length XX XX value range: 00-10, samples: 02=2 meters; 10=10meters # Capillary length Silicon oil, process temperature: -45-205°C # # Meted parts material Silicon oil, process temperature: -10-180°C # Neebee M-20, process temperature: -10-180°C # # Diaphragm S SUS316 # Diaphragm S SUS316L # Flange specifications H01 HG/T 20592-2009, DN50PN10 raised face flange(Max # HO5 HG/T 20592-2009, DN50PN10 raised face flange(Max # # H06 HG/T 20592-2009, DN50PN10 raised face flange(Max # # K011 Tri-Clamp 1-1/2 (Max measuring range: 2MPa) # # K02 Tri-Clamp 1-1/2 (Max measuring ra		Insert tube	D00	None	*
connection (Low- pressure side) connection (ppe) connection (ppe) <thconnection (ppe) connection (ppe) <thconn< td=""><td></td><td>diameter</td><td>D01</td><td>Diameter: 66mm, length: 50mm</td><td></td></thconn<></thconnection 		diameter	D01	Diameter: 66mm, length: 50mm	
Connection C Capillary transmission * Side) Capillary type M2 Armoured SUS304, outer diameter 3.5mm Capillary XX XX value range: 00-10, samples: 02=2 meters; 10=10meters Capillary XX XX value range: 00-10, samples: 02=2 meters; 10=10meters Lingth Silicon oil, process temperature: -45-205°C * H High-temperature silicon oil, process temperature: -10-180°C * Wetted parts 4 SUS304 * material 6 SUS316 * Diaphragm S SUS316 * H Hastelioy C * * Flange H01 HG/T 20592-2009, DNSOPN10 raised face flange(Max * measuring range: 1MPa) * * * H05 HG/T 20592-2009, DN10PN10 raised face flange(Max * * measuring range: 1MPa) * * * * H06 HG/T 20592-2009, DN10PN10 raised face flange(Max * * measuring range: 1MPa) * * * * Motional Mot Tri-Clamp 1.1/2"(Max measuring range: 2MPa) </td <td></td> <td></td> <td>/L</td> <td></td> <td>*</td>			/L		*
Capillary type M2 Armoured SUS304, outer diameter 3.5mm Capillary type XX XX value range: 00-10, samples: 02=2 meters; 10=10meters Isolated filing fluid S Silicon oil, process temperature: -45-205°C * H High-temperature silicon oil, process temperature: -10-180°C * Wetted parts material 4 SUS304 * Diaphragm material 5 SUS316 * Diaphragm material 5 SUS316 * H Hastelloy C * Flange specifications H01 HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa) * H05 HG/T 20592-2009, DN10PN10 raised face flange(Max measuring range: 1MPa) * H06 HG/T 20592-2009, DN10PN10 raised face flange(Max measuring range: 1MPa) * K01 Tri-Clamp 1-1/2"(Max measuring range: 2MPa) * K01 Tri-Clamp 1-1/2"(Max measuring range: 2MPa) * K02 Tri-Clamp 2*(Max measuring range: 2MPa) * Moditional Separator options D00 None D1 Diameter: 66mm, length: 50mm	pressure		С	Capillary transmission	*
length Silicon oil, process temperature: -45-205°C * Isolated filling fluid S Silicon oil, process temperature: 0-315°C * H High-temperature silicon oil, process temperature: 0-315°C * Wetted parts material 4 SUS304 * Diaphragm material S SUS316L * H Hastelloy C * Flange specifications (Note1) H01 HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa) * H05 HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa) * H06 HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa) * H06 HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa) * K01 Tri-Clamp 1-1/2"(Max measuring range: 2MPa) * K02 Tri-Clamp 2"(Max measuring range: 2MPa) * M01 Diameter: 66mm, length: 50mm * Additional options Separator Detailed specifications as following * Fixed mounting accessory /B5 U-shape bracket, apply to dual remote products without process flanges		Capillary type	M2	Armoured SUS304, outer diameter 3.5mm	
filling fluid			хх	XX value range: 00-10, samples: 02=2 meters; 10=10meters	
H High-temperature silicon oil, process temperature: 0-315°C F Neobee M-20, process temperature: -10-180°C * Wetted parts material 4 SUS304 * Diaphragm material 5 SUS316L * H Hastelloy C * Flange specifications (Note1) H01 HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa) * H05 HG/T 20592-2009, DN30PN10 raised face flange(Max measuring range: 1MPa) * H06 HG/T 20592-2009, DN10 Protect face flange(Max measuring range: 1MPa) * H06 HG/T 20592-2009, DN10 Protect face flange(Max measuring range: 1MPa) * K01 Tri-Clamp 1-1/2"(Max measuring range: 2MPa) * K02 Tri-Clamp 2"(Max measuring range: 2MPa) * K01 Diameter: 66mm, length: 50mm * Additional options Separator process flanges Potailed specifications as following * Fixed mounting accessory /B5 U-shape bracket, apply to dual remote products without process flanges * Fixed mounting accessory /J1 Aviation female plug (elbow) with 2m cable, 4 pin, M12*1, IP67			s	Silicon oil, process temperature: -45-205°C	*
Wetted parts material 4 SUS304 * Diaphragm material 5 SUS316 Diaphragm material 5 SUS316L * H Hastelloy C Flange specifications (Note1) H01 HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa) * H05 HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa) * H06 HG/T 20592-2009, DN10PN10 raised face flange(Max measuring range: 1MPa) * H06 HG/T 20592-2009, DN10PN10 raised face flange(Max measuring range: 1MPa) * K01 Tri-Clamp 1-1/2"(Max measuring range: 2MPa) * K02 Tri-Clamp 2"(Max measuring range: 2MPa) * Additional options Separator - Detailed specifications as following * Fixed mounting accessory //B5 U-shape bracket, apply to dual remote products without process flanges * Ficetrical connection accessory //1 Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67 * Process connection conscetoin /G1		ming nuid	н	High-temperature silicon oil, process temperature: 0-315°C	
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Image: Substrain for substrain stateSubstrain for substrain stateSubstrain stateDiaphragm materialSSUS316L*HHastelloy C*Flange specificationsH01HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa)*Note1)H05HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa)*H06HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*H06HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*K01Tri-Clamp 1-1/2"(Max measuring range: 2MPa)*K02Tri-Clamp 2"(Max measuring range: 2MPa)*Mo6None D01Diameter: 66mm, length: 50mmMAdditional optionsSeparator mounting accessoryDetailed specifications as following*Fixed mounting accessory/B5U-shape bracket, apply to dual remote products without process flanges*Fixed mounting accessory/J1Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67*Process connection accessory/G11.5" Tri-Clamp*//G22" Tri-Clamp**			4	SUS304	*
materialHHastelloy CFlange specificationsH01HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa)*(Note1)H05HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa)*H06HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*H06HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*K01Tri-Clamp 1-1/2"(Max measuring range: 2MPa)*K02Tri-Clamp 2"(Max measuring range: 2MPa)*Insert tube dameterD00None*D01Diameter: 66mm, length: 50mm*Additional optionsSeparator conservy-Detailed specifications as followingFixed mounting accessory/B5U-shape bracket, apply to dual remote products without process flanges*Electrical connection accessory/J1Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67*Process connection accessory/G11.5" Tri-Clamp*/G22" Tri-Clamp**		6		SUS316	
Flange specificationsHHastelloy CFlange specificationsH01HG/T 20592-2009, DN50PN10 raised face flange(Max measuring range: 1MPa)*(Note1)H05HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa)*H06HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*H06HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*K01Tri-Clamp 1-1/2"(Max measuring range: 2MPa)*K02Tri-Clamp 2"(Max measuring range: 2MPa)*K01Diameter: 66mm, length: 50mmAdditional optionsSeparator D01Detailed specifications as following*Fixed mounting accessory/B5 //12U-shape bracket, apply to dual remote products without process flanges*Fixed mounting accessory/J1Aviation female plug (straighter) with 2m cable, 4 pin, (H27*Process connection accessory/G11.5" Tri-Clamp*/G22" Tri-Clamp**				SUS316L	*
specifications (Note1)measuring range: 1MPa)measuring range: 1MPa)H05HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa)*H06HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*K01Tri-Clamp 1-1/2"(Max measuring range: 2MPa)*K02Tri-Clamp 2"(Max measuring range: 2MPa)*Insert tube dameterD00NoneD01Diameter: 66mm, length: 50mmO01Diameter: 66mm, length: 50mmpotionsFixed mounting accessory/B5U-shape bracket, apply to dual remote products without process flangesFixed mounting accessory/J1Aviation female plug (straighter) with 2m cable, 4 pin, M12"1, IP67*Process connection accessory/G11.5" Tri-Clamp*Process connection accessory/G22" Tri-Clamp*	material		н	Hastelloy C	
Additional optionsSeparator accessoryInsert tube (M3M65HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range: 1MPa)*K01Tri-Clamp 1-1/2"(Max measuring range: 2MPa)*Insert tube dameterD00NoneD01Diameter: 66mm, length: 50mmAdditional optionsSeparator-Detailed specifications as followingFixed mounting accessory/B5U-shape bracket, apply to dual remote products without process flangesFixed mounting accessory/J1Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67Process connection accessory/G11.5" Tri-ClampProcess connection accessory/G11.5" Tri-ClampYZ2" Tri-Clamp*					*
Additional options Fixed mounting accessory ////////////////////////////////////		(Note1)	H05		*
In outring in the finite fi			H06		*
Insert tube dameterD00NoneAdditional optionsSeparator options-Detailed specifications as followingAdditional optionsSeparator options-Detailed specifications as followingFixed mounting accessory/B5U-shape bracket, apply to dual remote products without process flanges*Electrical connection accessory/J1Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67*Process connection accessory/G11.5" Tri-Clamp*/G22" Tri-Clamp*			K01	Tri-Clamp 1-1/2"(Max measuring range: 2MPa)	*
Insertative dameter Dot Detailed specifications as following Additional options Separator - Detailed specifications as following Additional options Separator - Detailed specifications as following Fixed mounting accessory /B5 U-shape bracket, apply to dual remote products without process flanges * Electrical connection accessory /J1 Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67 * Process connection accessory /G1 1.5" Tri-Clamp * * /G2 2" Tri-Clamp * *			К02	Tri-Clamp 2"(Max measuring range: 2MPa)	*
Additional options Separator - Detailed specifications as following Fixed mounting accessory /B5 U-shape bracket, apply to dual remote products without process flanges * Electrical connection accessory /J1 Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67 * Process connection accessory /G1 1.5" Tri-Clamp * /G2 2" Tri-Clamp *		Insert tube	D00	None	
options Fixed /B5 U-shape bracket, apply to dual remote products without * Fixed /B5 U-shape bracket, apply to dual remote products without * Electrical /J1 Aviation female plug (straighter) with 2m cable, 4 pin, * connection Aviation female plug (elbow) with 2m cable, 4 pin, M12*1, * Process /G1 1.5" Tri-Clamp * /G2 2" Tri-Clamp *		dameter	D01	Diameter: 66mm, length: 50mm	
mounting accessoryprocess flangesElectrical connection accessory/J1Aviation female plug (straighter) with 2m cable, 4 pin, M12*1, IP67*/J2Aviation female plug (elbow) with 2m cable, 4 pin, M12*1, IP67*Process connection accessory/G11.5" Tri-Clamp*/G22" Tri-Clamp*	Additional options			Detailed specifications as following	
connection accessoryM12*1, IP67/J2Aviation female plug (elbow) with 2m cable, 4 pin, M12*1, IP67Process connection accessory/G11.5" Tri-Clamp*/G22" Tri-Clamp*		mounting	/B5		*
Process /G1 1.5" Tri-Clamp * /G2 2" Tri-Clamp *		connection	/J1		*
connection accessory /G2 2" Tri-Clamp *		accessory	/J2		
accessory			/G1	1.5" Tri-Clamp	*
			/G2	2" Tri-Clamp	*
			/M1	1.5" sealing gasket	*



Ordering information chapter

	/M2	2" sealing gasket	*
	/Z1	Welding adapter for 1-1/2" tri-clamp	
	/Z2	Welding adapter for 2" tri-clamp	
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)	
Approvals	/I1	Intrinsic safety certificate, ExiaIICT4, NEPSI	*
(multiple)	/F3	CE certificate	*
Wetted parts	/G1	Ungrease treatment	
treatment /G2		Electropolishing treatment	

Note 1: Measuring range: 10kPa-1MPa. If the min measuring range is 10kPa, the single-end capillary length can not be more than 1m. Less than 1m need to confirm with engineers.

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)

Α	1.0	1		TT	
1.6.1	124	12			LIN:

Factory certificate

Certification organization	Intertek
Quality management system	ISO9001-2008
IScone of 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

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

Intrinsic safety certificate

Certification organization name	NEPEI
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 parameter description	Maximum input voltage: 28VDC
	Maximum input current: 100mA
	Maximum input power: 0.7w
	Maximum internal equivalent parametersCi(uF): 0
	Maximum internal equivalent parametersLi(mH): 0



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