



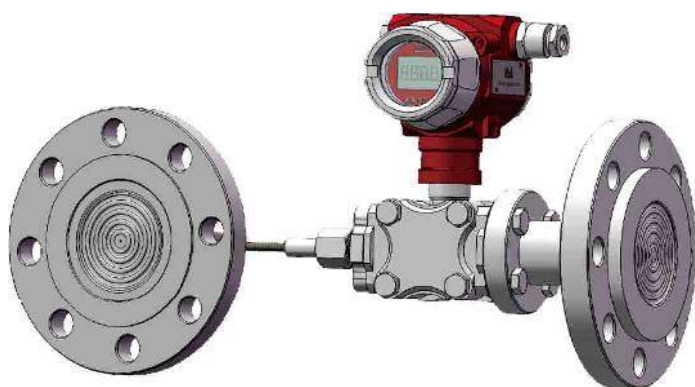
SJ
MSSMP858-
NST

MONOSILIC
DIAPHRAGM
PRESSURE
TRANSMITTER

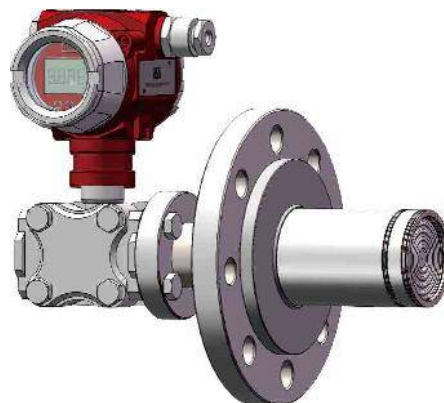


Product information

Brief introduction



Dual flush diaphragm



Standard extended diaphragm

MSSMP858 monosilicon pressure transmitter is a high performance pressure transmitter with international leading technology meticulously designed by SJ Gauge 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 MSDMP305X 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
Measuring range	10kPa-1MPa, please refer to the ordering information chapter
Output signal	4-20mA, 4-20mA+HART, Modbus-RTU/RS485others
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



RoHS





Technical specifications

Measuring range and limit

Nominal value	Smallest calibratable span	Lower range limit (LRL)	Upper range limit (URL)	Static pressure limit*	High pressure side overload limit*	Low pressure side overload limit*
40kPa	4kPa	-40kPa	40kPa	40MPa	25MPa	16MPa
250kPa	25kPa	-250kPa	250kPa	40MPa	25MPa	16MPa
1MPa	100kPa	-500kPa	1MPa	40MPa	25MPa	16MPa

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 $|URV| \geq |LRV|$, needs $|URV| \geq$ smallest calibratable span; when $|URV| \leq |LRV|$, needs $|LRV| \geq$ 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 isolation 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: $\pm 0.2\%$ URL

Stability: $\pm 0.2\%$ URL/ 5year

Reference accuracy

Including linearity(BFSL), hysteresis and repeatability. calibration temperature: $20^\circ\text{C} \pm 5^\circ\text{C}$

Linear output accuracy	$TD \leq 10$ (note 1)	$\pm 0.2\%$ URL	Nominal value: 40kPa, 250kPa 1MPa
	$10 < TD \leq 20$	$\pm 0.5\%$ URL	

Square root output accuracy is 1.5 times linear output accuracy

Note 1: TD is Turn down

when $|URV| \geq |LRV|$, $TD = URL / |URV|$

when $|URV| \leq |LRV|$, $TD = URL / |LRV|$

Ambient temperature effects

Within the range - 20-80°C total impact	$\pm (0.1 + 0.1TD)\%$ URL
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Static pressure effects

Effect on zero	$\pm 0.15TD\%$ URL/4MPa
Effect on full scale	$\pm 0.2\%$ URL/4MPa

Power supply effects

When power supply voltage is within 10.5/16.5-55VDC, zero and span change should not more than $\pm 0.005\%$ 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

Signal	Type	Output
4-20mA	Linearity	Two wire
4-20mA+AHRT	Linearity	Two wire
Modbus-RTU/RS485	Linearity	Four wire



Technical specifications

Damping time

Total damping time constant: equal to the sum of damping time of amplifier and sensor capsule
Damping time of amplifier : 0-100S adjustable
Damping time of sensor capsule (isolation diaphragm and silicon oil filling)≤0.2S
Startup after power off: ≤6S
Normal services after data recovery: ≤31S

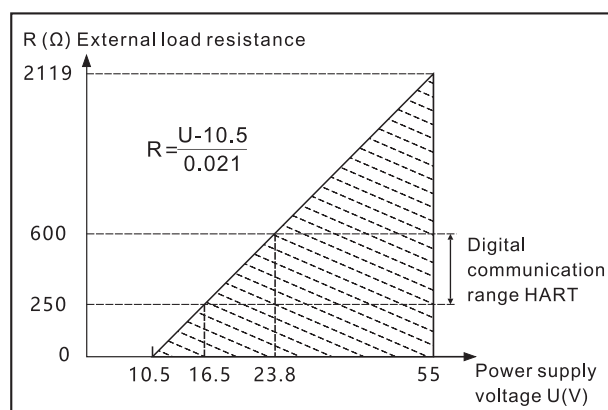
Power supply

Item	Operating conditions
Standard/flame proof	10.5-55VDC
HART protocol	16.5-55VDC,communication load resistance 250Ω
Modbus-RTU/RS485	5-32VDC
Load resistance	0-2119Ω for operation, 250-600Ω for HART protocol
Transmission distance	<1000 meters
Power consumption	≤500mW@24VDC,20.8mA

Weight

Net weight: about 8kg (Tri-Clamp process connection accessory, without mounting brackets)

Power supply and load requirements



Environment condition

Items		Operational condition
Working temperature		-40-85°C, integrated LCD display:-20-70°C
Storage temperature		-40-110°C, integrated LCD display:-40-85°C
Media temperature		Silicon oil filling: -40-205°C
		Hygienic fluid filling s:-10-180°C
		High-temperature silicon oil, process temperature: 0-315°C
Working humidity		0-95%RH
Proction class		IP67
Dangerous condition	NEPSI	ExdIICT6(GYB16.1253X)**
		ExiaIICT4(GYB16.1965X)**
	CSA	Class I, Division 1, Group A, B, C and D T6 Class II, Division 1 Group E, F and G T80°C Class III (No.: 80020805)*
	IECEX	Ex db IIC T6 Gb, Ex tb IIIC T80 Db (IECEX NEP 19.0042X)* Ex ia IIC T4 Ga (IECEX NEP 19.0042X)*
*Using heat exchange connector may lead to zero offset and temperature drift. The degree depends on mounting position and filling fluid		
**Please contact the engineer for details		



Technical specifications

EMC environment

NO.	Test items	Basic standards	Test conditions	Performance level
1	Radiated interference	GB/T 9254/CISPR22	30MHz-1000MHz	OK
2	Conducted interference (DC power port)	GB/T 9254/CISPR22	0.15MHz-30MHz	OK
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 induced by radio frequency fields	GB/T 17626.6/IEC61000-4-6	3V(150kHz-80MHz)	A(Note1)

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

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



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
mmH ₂ O	Millimeter of water@4°C
mH ₂ O	Meter of water@4°C
inH ₂ O	Inches of water@4°C
ftH ₂ O	Feet of water@4°C
inHg	Inches of mercury@0°C
mHg	Meter mercury column@0°C
TORR	Torr
mbar	Millibar
g/cm ²	Gram per square centimeter
kg/cm ²	Kilogram per square centimeter
Pa	PA
ATM	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	Lower range value, 4mA

Damping time

Units	Setting range
S	0-100

Analog output type

Parameters	Output type
mA LINER	Linearity
mA $\sqrt{\quad}$	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 caused 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 10kPa
S254D	250kPa	Range -250kPa-250kPa, smallest calibratable span 25kPa
S105D	1MPa	Range -500-1000kPa, smallest calibratable span 100kPa

Code	Position	Instruction
F	Sensor seal	Stainless steel welding

Diaphragm(S/H)



Seal(S)



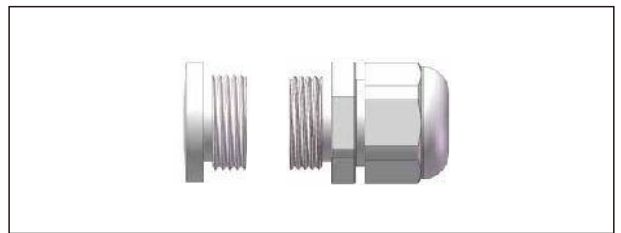
Electrical connection select instruction

Code	Item	Description
T1	Electrical connection	Aluminum-alloy terminal, 2 cable entry M20*1.5(F), red body, white cover
R1	Cable entry protector	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

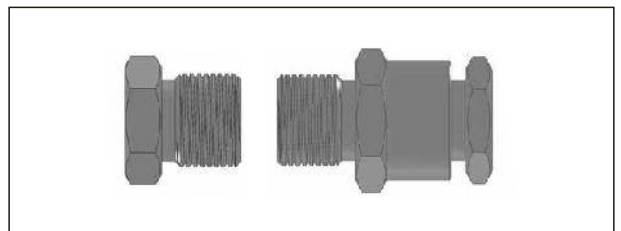
Housing (T1)



Standard cable entry protective adaptor(R1)



Flame proof cable entry protective adaptor(R2/R3)



Product selection instruction

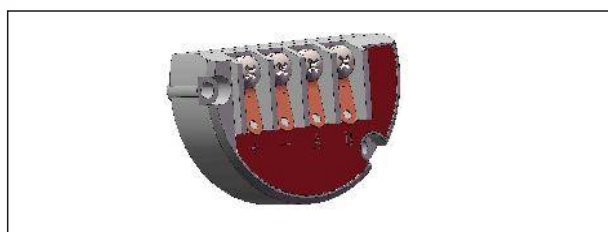
Transmission module

Code	Items	Description
F	Output signal	4-20mA two wire, power supply: 10.5-55VDC
H		4-20mA+HART two wire, power supply: 16.5-55VDC
R		Modbus-RTU/RS485 four wire, power supply: 5-32DVDC
A	Display	Without display
C		With LCD display

Display module(C)



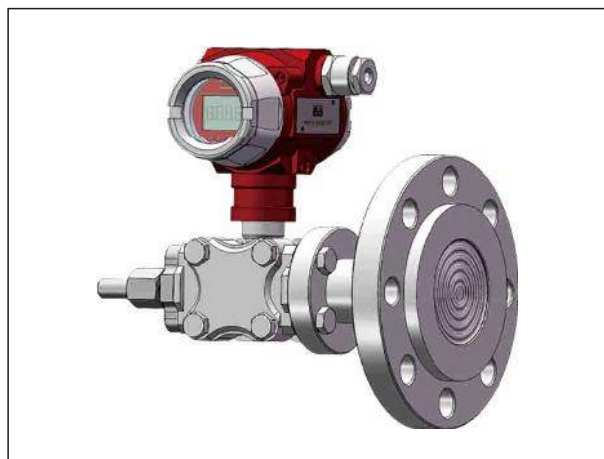
Terminals



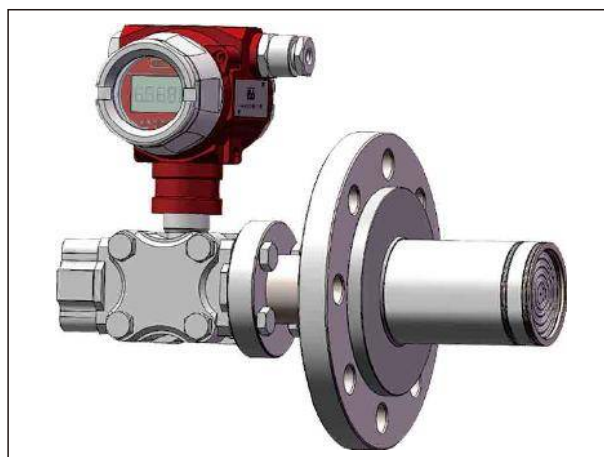
Process connection adaptor selection instruction

Code	Item	Description
A1	Process connection adaptor	Adaptor, M20*1.5(M) with pressure-leading tubeΦ14*2*30 SUS304
A2		Adaptor, 1/2-14NPT(F), SUS304

Adaptor/ M20*1.5(M)/ with pressure-leading tube(A1)



Adaptor/ 1/2-14NPT(F) (A2)





Product selection instruction

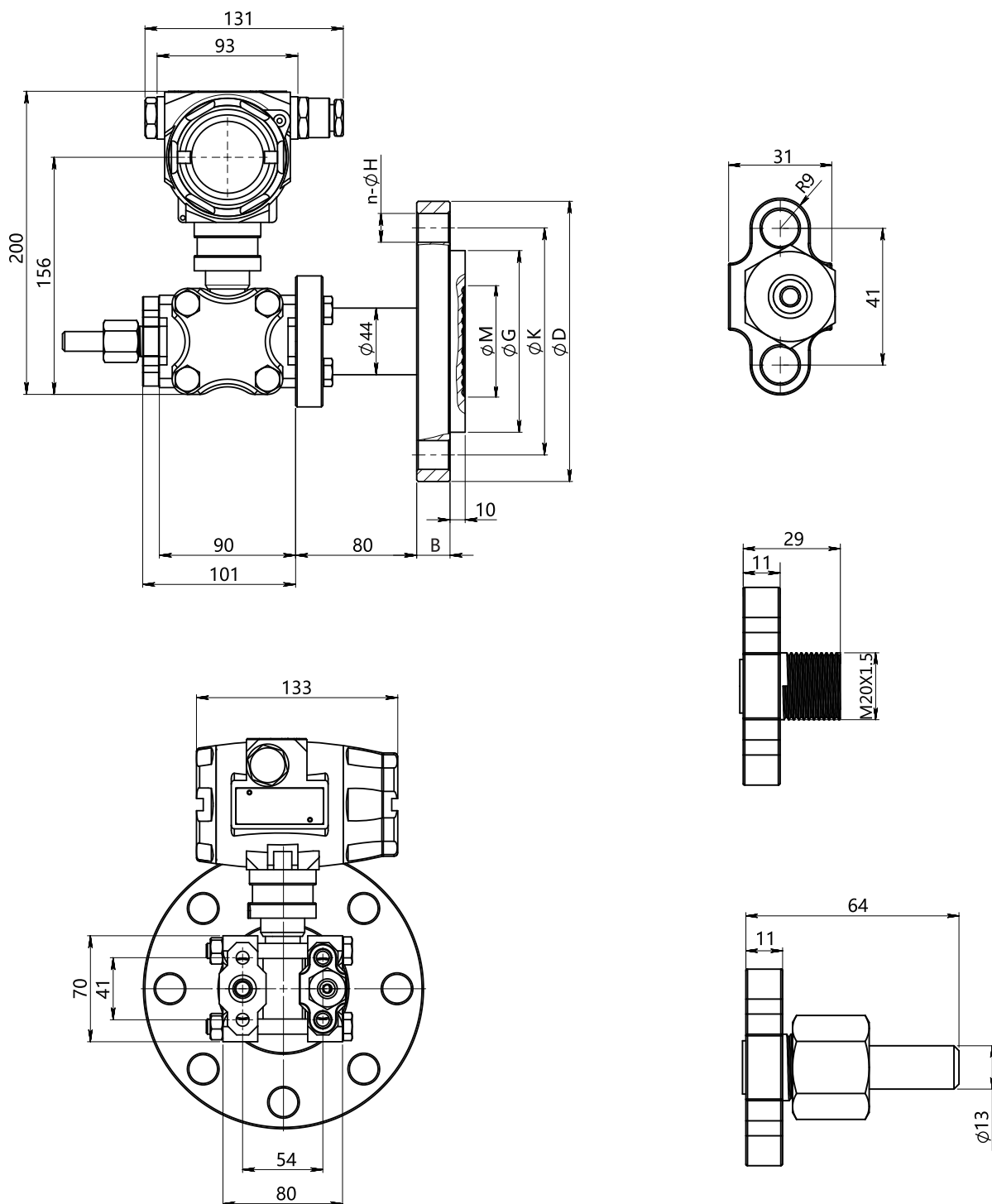
Process connection select instruction

Connection position	/HL	High-pressure side fixed connection, low-pressure side 1/4NPT(F) ANSI/ASME B1.20.1,
	/H	High-pressure side and low-pressure side both are diaphragm connection
Connection type	G	Fixed mounting
Isolation fluid filling	S	Silicon oil, process temperature: -45-205℃
	H	High-temperature silicon oil, process temperature: 0-315℃
	F	Hygienic fluid, Neobee M-20, process temperature: -10-180℃
Wetted parts material	4	SUS304
	6	SUS316
Diaphragm material	S	SUS316L
	H	Hastelloy C
Flange specifications	H01	HG/T 20592-2009, DN50PN10-PN40 raised face flange(max measuring range 4MPa)
	H05	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)
Insert tube diameter	D00	None
	D01	Diameter:66mm, length:50mm
	D02	Diameter:66mm, length:100mm
	D03	Diameter:66mm, length:150mm
Connection position	/L	Low-pressure side connection
Connection type	C	Capillary transmission
Capillary type	M1	Armoured SUS304, with PVC cover
	M2	Armoured SUS304, outer diameter 3.5mm
Capillary length	XX	XX value range: 00-10, samples: 02=2 meters; 10=10meters
Isolation fluid filling	S	Silicon oil, process temperature: -45-205℃
	H	High-temperature silicon oil, process temperature: 0-315℃
	F	NeobeeM-20, process temperature: -10-180℃
Wetted parts material	4	SUS304
	6	SUS316
Diaphragm material	S	SUS316L
	H	Hastelloy C
Flange specifications	H01	HG/T 20592-2009, DN50PN10 raised face flange(max measuring range 4MPa)
	H05	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)
Insert tube diameter	D00	None
	D01	Diameter:66mm, length:50mm
	D02	Diameter:66mm, length:100mm
	D03	Diameter:66mm, length:150mm



Product drawing and dimension

Standard flush diaphragm drawing and dimension with display(C) and adaptor(A1) (unit:mm)

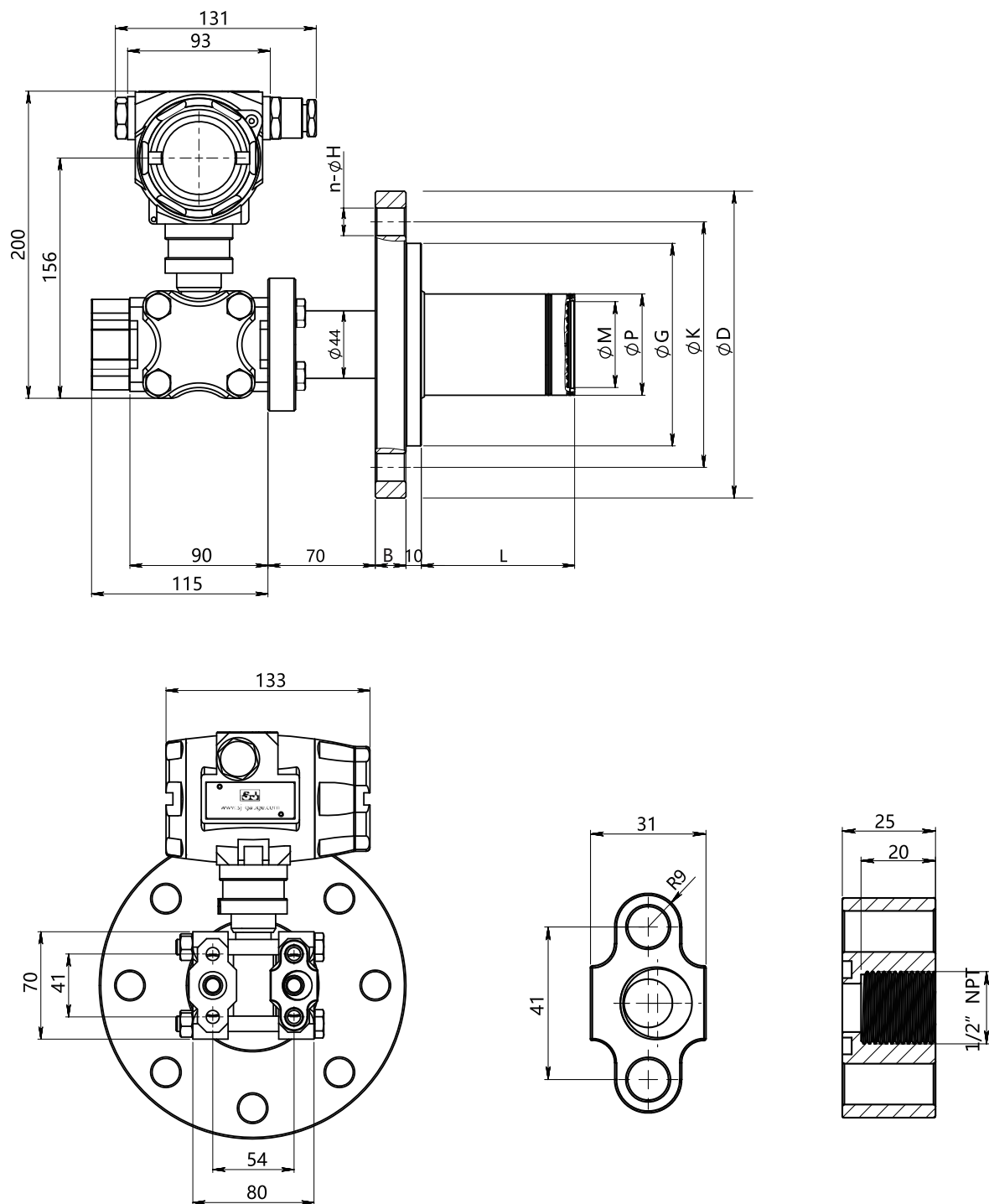


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Product drawing and dimension

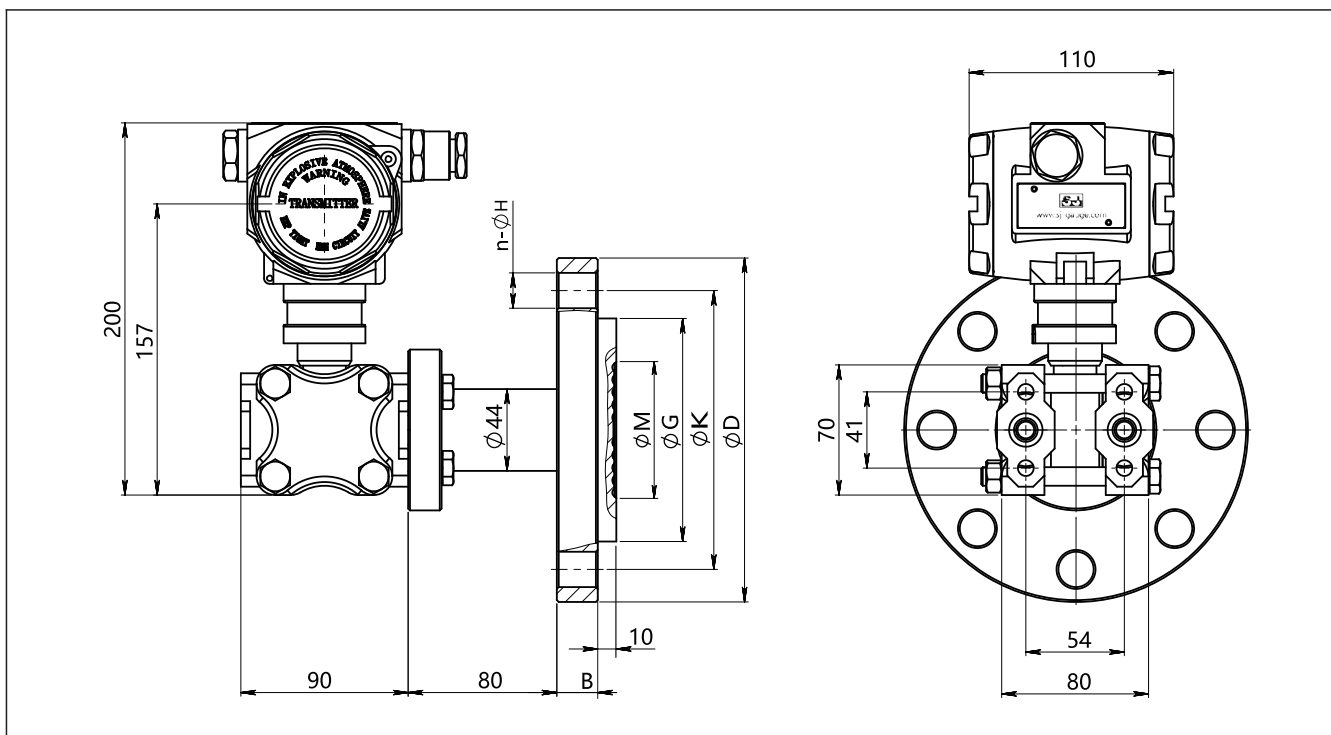
Standard extended diaphragm with display(C) and adaptor(A2) (unit: mm)



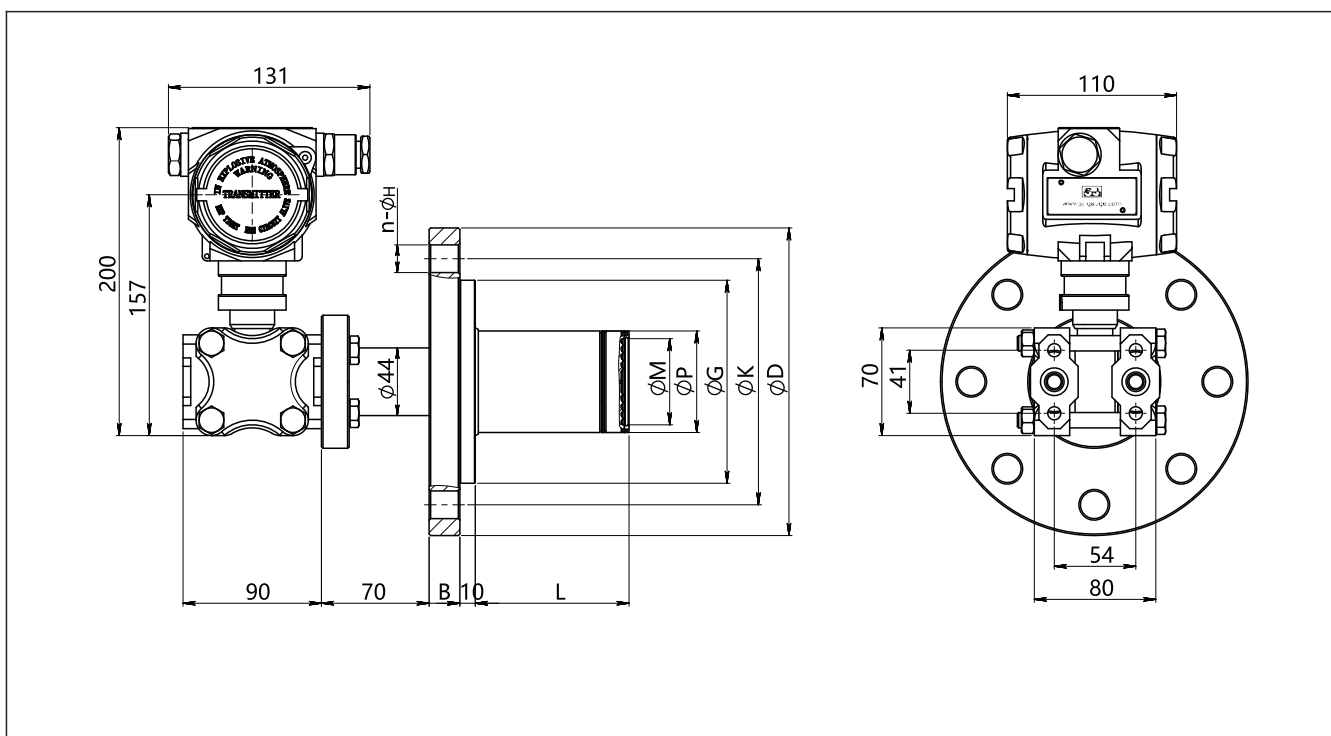
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Product drawing and dimension

Standard flush diaphragm drawing and dimension without display(A)(unit: mm)



Standard extended diaphragm without display(A) (unit:mm)

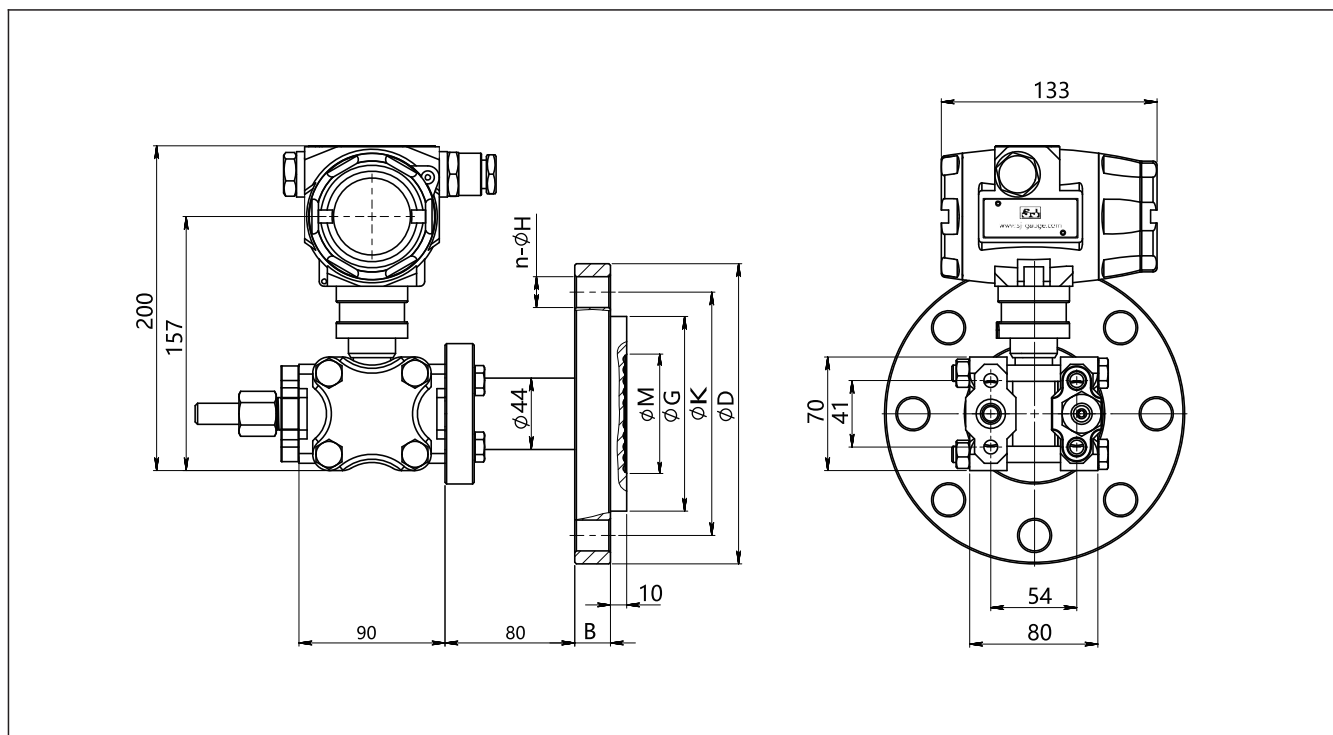


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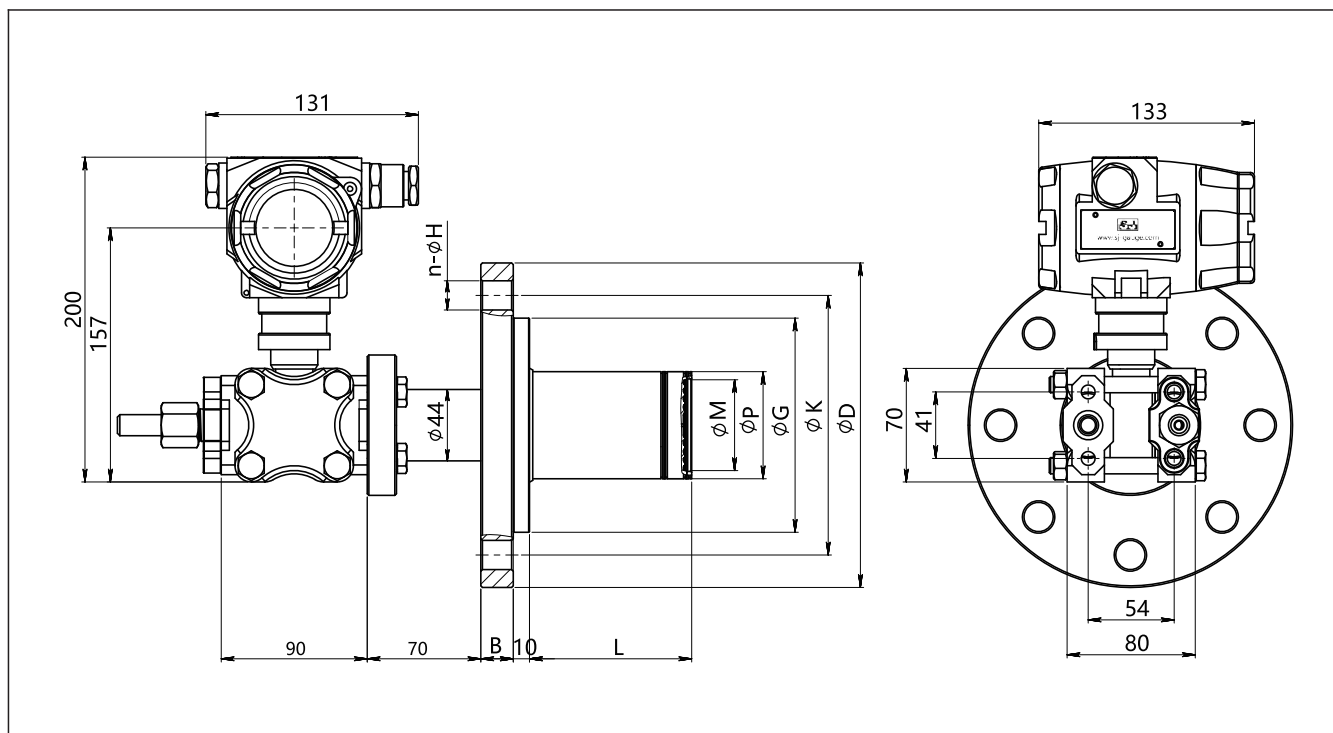


Product drawing and dimension

Dual flush diaphragm drawing and dimension with display(C) (unit: mm)



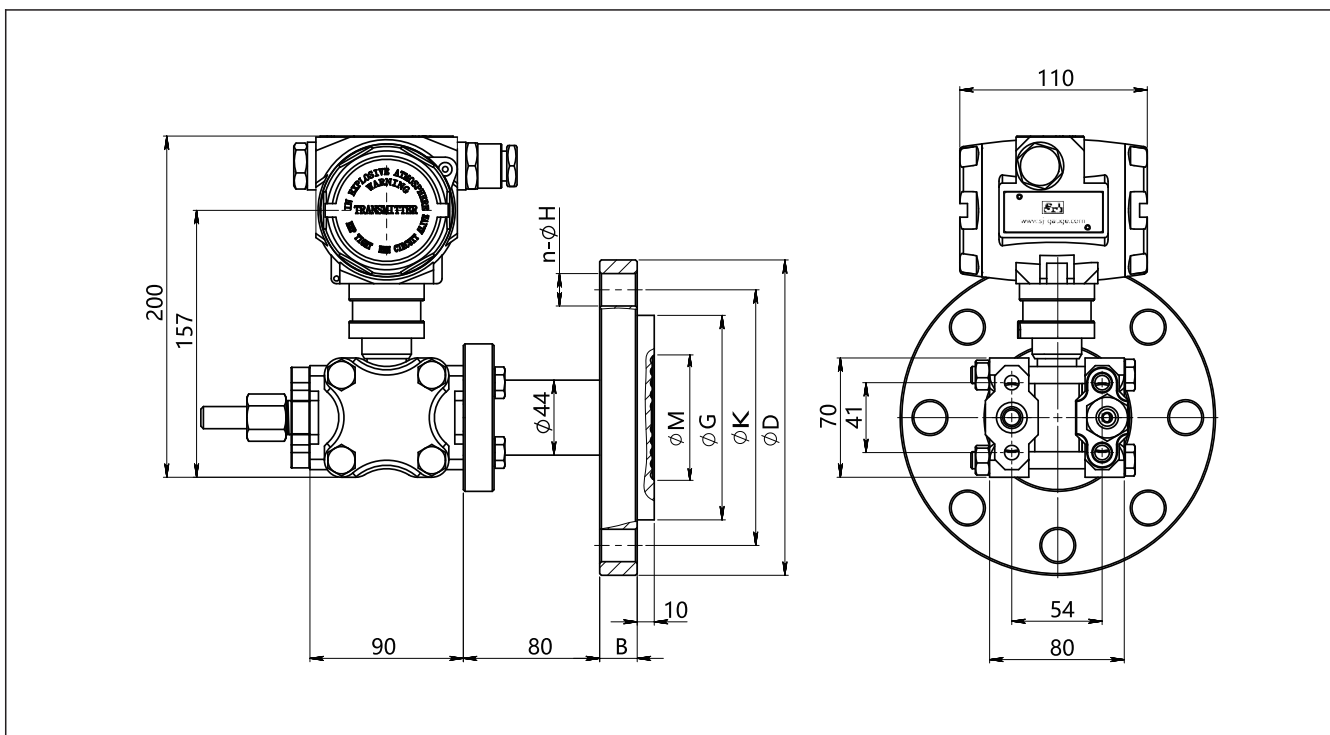
Dual extended diaphragm drawing and dimension with display(C) (unit: mm)



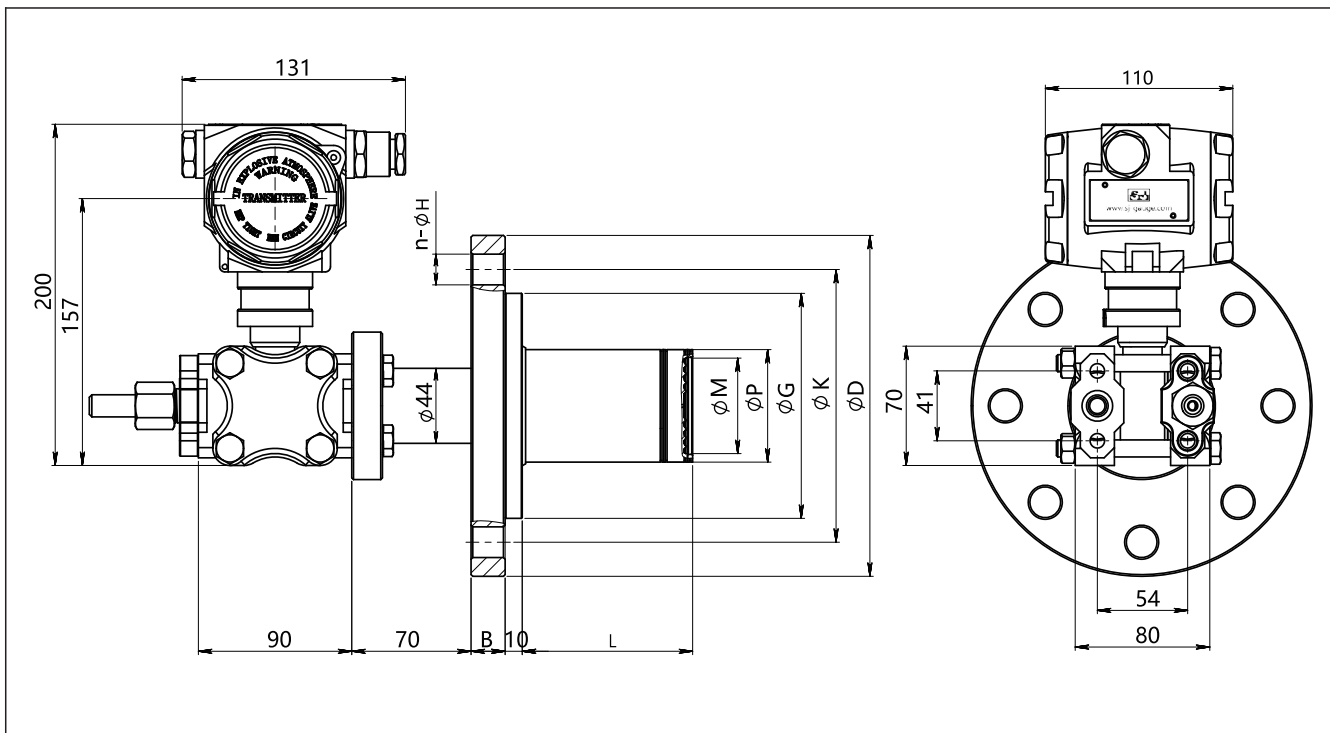
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Product drawing and dimension

Dual flush diaphragm drawing and dimension without display(A) (unit: mm)



Dual extended diaphragm drawing and dimension with display(C) (unit: mm)

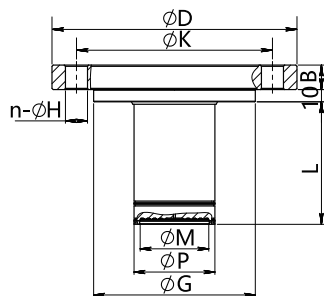


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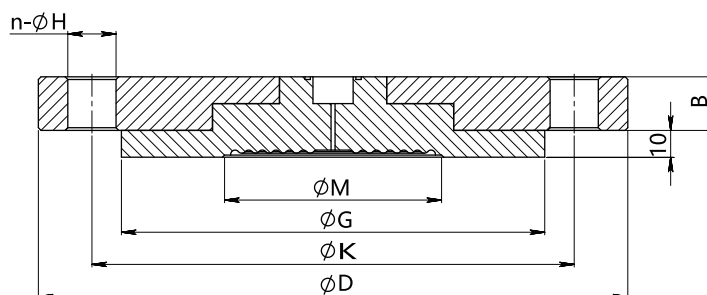
Product drawing and dimension

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)	Corrugation size(ΦM)
160	8	18	66	50	42
160	8	18	66	100	42
160	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	56	
138	18	8	71	
158	18	8	71	

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Ordering information chapter

(*)

Item	Parameters	Code	Instruction	Fast delivery available
	Model	MSSMP858-DST	Monosilicon differential pressure transmitter	
Sensor	Separator	-	Detailed specifications as following	
	Pressure range code	S403D	Nominal value(URL): 40kPa	*
		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	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	*
		H	4-20mA+HART two wire, power supply: 16.5-55VDC	*
		R	Modbus-RTU/RS485 four wire, power supply: 5-32VDC	
	Display	A	Without LCD display	
		C	LCD display	*
Process	Separator	-	Detailed specifications as following	
Process connection (High-pressure side)	Connection position	HL	High-pressure side fixed connection, low-pressure side 1/4NPT(F) ANSI/ASME B1.20.1	*
		/H	High-pressure side and low-pressure side both are diaphragm connection	
	Connection type	G	Fixed mounting	*
		S	Silicon oil, process temperature: -45-205°C	*
		H	High-temperature silicon oil, process temperature: 0-315°C	
	Isolation fluid filling	F	Hygienic fluid, Neobee M-20, process temperature: -10-180°C	*
		4	SUS304	*
		6	SUS316	
	Wetted parts material	S	SUS316L	*
		H	Hastelloy C	
	Flange specifications	H01	HG/T 20592-2009, DN50PN10-PN40 raised face flange (max measuring range 4MPa)	*
		H05	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)	*

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Ordering information chapter

	Insert tube diameter	D00	None	
		D01	Diameter:66mm, length:50mm	*
		D02	Diameter:66mm, length:100mm	
		D03	Diameter:66mm, length:150mm	
Process connection (Low-pressure side)(While low pressure side is diaphragm connection)	Connection position	/L	Low-pressure side connection	
	Connection type	C	Capillary transmission	
	Capillary type	M1	Armoured SUS304, with PVC cover	
		M2	Armoured SUS304, outer diameter 3.5mm	
	Capillary length	XX	XX value range: 00-10,samples: 02=2 meters; 10=10meters	
	Isolation fluid filling	S	Silicon oil, process temperature: -45-205°C	*
		H	High-temperature silicon oil, process temperature: 0-315°C	
		F	Hygienic fluid, Neobee M-20, process temperature: -10-180°C	*
	Wetted parts material	4	SUS304	*
		6	SUS316	
	Diaphragm material	S	SUS316L	*
		H	Hastelloy C	
	Flange specifications	H01	HG/T 20592-2009, DN50PN10-PN40 raised face flange (max measuring range 4MPa)	*
		H05	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)	*
	Insert tube diameter	D00	None	
		D01	Diameter:66mm, length:50mm	*
		D02	Diameter:66mm, length:100mm	
		D03	Diameter:66mm, length:150mm	
Additional options	Separator	-	Detailed specifications as following	
	Process connection accessory	/A1	T-shaped adaptor, M20*1.5(M)/ and pressure-leading tubeΦ14*2*30, SUS304(low-pressure side)	*
		/A2	U-shaped adaptor, 1/2-14NPT(F), SUS304(low-pressure side)	*
	Display mode	/D1	According to your requirement	
	Calibration report	/Q1	Calibration report provided by our company	*
		/Q2	Calibration report provided by chinese authorised third party	
		/Q3	Static pressure report (Differential pressure only)	
	Approvals (multiple)	/E1	Flame proof certificate, ExdbIICT6Gb, ExtbIICT80 Cdb, IECEx or NEPSI	*
		/I1	Intrinsic safety certificate, ExiaIICT4Ga, IECEx or NEPSI	*
		/E2	Flame proof certificate, CSA Class I, Division 1, Group A, B, C and D T6 Class II, Division 1 Group E, F and G T80°C Class III	
		/F3	CE certificate	*

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Ordering information chapter

	Wetted parts treatment	/G1	Ungrease treatment	
		/G2	Electropolishing treatment	

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	ISO9001-2015
Scope of certification	Design and production of pressure transmitter
Registration number	110804039

CE

Certificate organization	ISET
License scope	MSSMP858 series pressure transmitter
Mark	CE
EMC instruction	2014/30/EU
Standard	EN61326-1: 2013
Registration number	IT051353LG161207

Flame proof certificate

Certificate organization	NEPSI	IECEX	CSA
License scope	MSSMP858 pressure/differential pressure transmitter		
Explosion-proof mark	ExdIICT6	Ex db IIC T6 Gb, Ex tb IIIC T80°C Db	Class I, Division 1, Group A, B, C and D T6 Class II, Division 1 Group E, F and G T80°C Class III
Working temperature	-20°C to +55°C	-20°C to +60°C	-40-60°C
Maximum medium temperature	+80°C		
Registration number	GYB16.1253X	IECEX NEP 19.0042X	80020805

Intrinsic safety certitife

Certificate organization	NEPSI	IECEX
License range	MSSMP858 series pressure/ differential pressure transmitter	
Explosion-proof mark	ExiaIICT4	Ex ia IIC T4 Ga
Ambient temperature	-40°C to +60°C	-20°C to +60°C
Medium maximum temperature	+120°C	
Registration number	GYB16.1965X	IECEX NEP 18.0008X
Intrinsically safe parameter description	Maximum input voltage:20VDC	Maximum input voltage:28VDC
	Maximum input current:100mA	Maximum input current:93mA
	Maximum input power:0.7w	Maximum input power:0.65w
	Maximum internal equivalent parameters Ci(uF):0	
	Maximum internal equivalent parameters Li(mH):0.01	Maximum internal equivalent parameters Li(mH):0



Approvals

RoHS

Certificate organization	ECM
License scope	MSSMP858 pressure/differential pressure transmitter
Mark	RoSH
Instruction	2011/65/EU
Certification criteria	IEC62321-1:2013 IEC62321-5:2014 IEC62321-2:2013 IEC62321-6:2015 IEC62321-4:2014 IEC62321-7-1:2015
Registration number	0H180504.SLIUQ05



SIN JIA ENTERPRISE COMPANY LIMITED

TEL:+886-2-2550-4512

FAX:+886-2-2550-4510

info@sinjiagauge.com

www.sj-gauge.com

No.3, Ln. 71, Chifeng St., Datong Dist., Taipei City 103, Taiwan

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4ManPro
Mexico Branch Office

Elements For Manufacturing Processes

MEXICO BRANCH OFFICE

Roberto Diaz No. 401
Ciudad Industrial
Aguascalientes, Ags.
México
20290

4ManPro@4ManPro.com
(449) 171 3420
www.4ManPro.com/SPA/



USA BRANCH OFFICE

Pennzoil Place
700 Milam
Suite 1300
Houston, Tx, USA
77002

4ManPro-USA@4ManPro.com
+1 (832) 871 5022
www.4ManPro.com/ENG/

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