

MDM7000-GP-T/AP-T

Smart Pressure Transmitter-Direct Mounted Seal



Range

Model	Nominal Range	Minimum Range	Lower (LRL) ^①	Upper (URL) ^①	Overpressure ^②
GP-T	0.4bar	0.1bar	-0.4bar	0.4bar	10bar
	2.5bar	0.25bar	-1bar	2.5bar	40bar
	10bar	1bar	-1bar	10bar	60bar
	30bar	3bar	-1bar	30bar	150bar
	100bar	10bar	-1bar	100bar	200bar
AP-T	0.4bar	0.2bar	0bar	0.4bar	10bar
	2.5bar	0.5bar	0bar	2.5bar	40bar
	10bar	2bar	0bar	10bar	60bar
	30bar	3bar	0bar	30bar	150bar

Note: ^① LRV/URV setting: the lower limit value (LRV) and upper limit value (URV) are achieved between the upper and lower limits. $LRV \leq URV$. $LRV \leq URV$.

^② Overpressure: This is the sensor overload pressure, and the actual overload pressure depends on the connection specifications during the connection process.

Accuracy

Linear output accuracy	GP-T	TD $\leq$ 5	$\pm 0.1\%$ SPAN	0.4bar, 2.5bar, 10bar, 30bar, 100bar
		5<TD<10	$\pm 0.2\%$ SPAN	
	AP-T	TD $\leq$ 5	$\pm 0.1\%$ SPAN	0.4bar, 2.5bar, 10bar, 30bar
		5<TD<10	$\pm 0.2\%$ SPAN	

Note: TD (Turn down) refers to the range ratio, $TD = \text{Max. Range} / \text{Current Range}$. [Where: Max. Range = URL (Range starting from zero, identical to Factory Calibration Range); Current Range = SPAN (Equivalent to $|URV - LRV|$)]

Specifications

GP-T Accuracy ^①	$\pm 0.1\%$, $\pm 0.2\%$ URL, see the specifications for details
AP-T Accuracy ^①	$\pm 0.1\%$, $\pm 0.2\%$ URL, see the specifications for details
GP-T Range	-1bar~100bar, see the specifications for details
AP-T Range	0bar~0.4bar~0bar~30bar, see the specifications for details
Turn down ratio	100:1
Long-term stability	$\pm 0.1\%$ Span/10 years
Ambient temperature effects	The total effect per 10°C in the range of -20°C ~80°C : $\pm (0.5+0.15TD)\%$ SPAN
Voltage effects	Zero and span shifts shall not exceed $\pm 0.005\%$ URL/V for power supply variations within 18.3V~44V DC
Mounting position effects	The installation of the transmitter may produce a zero point error, which can be corrected by PV (primary value) =0 reset without any effect on the range.
Vibration effects	< 0.1% SPAN as per GB/T18271.3/IEC61298-3
Output signal	4mA~20mA DC, HART7 4mA~20mA DC, HART5, bluetooth 1V~5V DC low power Modbus-485 FOUNDATION Fieldbus ^②
IP rating	IP66/IP67
Weight ^③	Net weight: Approx. 1.56kg (Aluminum alloy housing)

Note: ^① Overall accuracy depends on span, wetted materials, process temperature, and process connections.

^② Please consult for details on FOUNDATION Fieldbus communication.

^③ Transmitter body weight only. Add 2.3kg for stainless steel housing, excluding mounting brackets, process connections, and other accessories.

Environmental Conditions

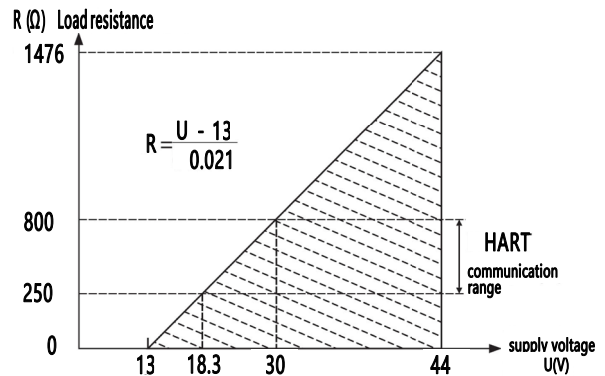
Items	Conditions
Ambient temperature	Without LCD display: -50°C ~85°C ; With LCD display: -40°C ~70°C
Storage temperature	Without LCD display: -50°C ~100°C ; with LCD display: -40°C ~85°C
Ambient humidity	5%RH~100%RH@40°C

Fill Fluid Specifications

Filling oil type	Code	Medium temperature	Density
Standard silicone oil	S	-40°C ~200°C	0.95g/cm ³
High temperature silicone oil	H	0°C ~315°C	1.07g/cm ³
Low temperature silicone oil	L	-50°C ~120°C	0.913g/cm ³
Fluorinated oil	E	-40°C ~ 85°C	1.81g/cm ³

Power Supply and Load Requirements

Items	Conditions
Supply voltage	HART communication protocol/RS 485: 18.3V~44V DC ^①
	Intrinsically safe HART communication protocol: 18.3V~30V DC
	FOUNDATION Fieldbus Communication: 9V~32V DC
Load resistance	0Ω~1476Ω ^② for operation mode; 250Ω~800Ω for HART communication
Transmission distance	<1000m
Power consumption	
4mA~20mA	≤500mW@24V DC, 20.8mA



Note: ^① When HART communication is not used, the minimum supply voltage can be 13V. Please consult MICROSENSOR for details.

^② 1476Ω= (44V-13V) /21mA

EMC Effects

SN	Test items	Standards	Test Conditions	Performance Level
1	Radiated interference (Housing)	GB/T 9254.1/CISPR 32	30MHz~1000MHz	Qualified
2	Conducted interference (DC power port)	GB/T 9254.1/CISPR 32	0.15MHz~30MHz	Qualified
3	Electrostatic discharge immunity test	GB/T 17626.2/IEC61000-4-2	8kV (contact), 15kV (air)	B
4	Radiated, radio-frequency, electro-magnetic field immunity test	GB/T 17626.3/IEC61000-4-3	10V/m (80MHz~1GHz)	A
5	Power frequency magnetic field immunity test	GB/T 17626.8/IEC61000-4-8	30A/m	B
6	Electrical fast transient / burst immunity test	GB/T 17626.4/IEC61000-4-4	4kV (5/50ns, 100kHz)	B
7	Surge immunity requirements	GB/T 17626.5/IEC61000-4-5	1kV (line to line) 2kV (line to ground) (1.2/50μs)	B
8	Immunity to conducted disturbances induced by radio frequency fields	GB/T 17626.6/IEC61000-4-6	3V/m (150kHz~80MHz)	A

Note : Performance level A: Normal operation within specified limits.

Performance level B: Temporary performance degradation permitted, with automatic recovery and no data loss.

Time Index

Damping time constant: equals to the combined damping time of electronic components and sensor module
Electronic components damping time: 0s~100s configurable
Sensor module damping time(sensor isolated diaphragm and filled silicone oil):≤ 0.2s (Note: This item is related to the sensor type and whether there is a diaphragm component.)
Turn-on time: ≤6s
Factory reset time: ≤31s
Frequency response: 20Hz

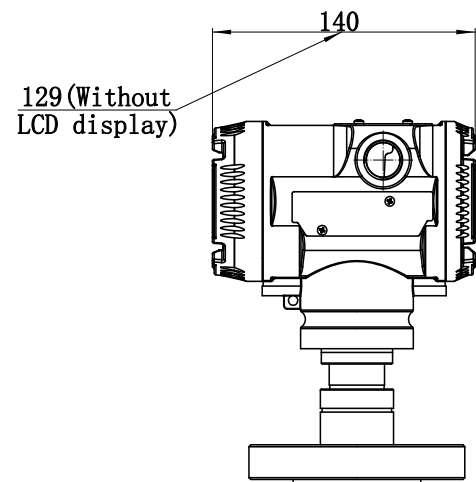
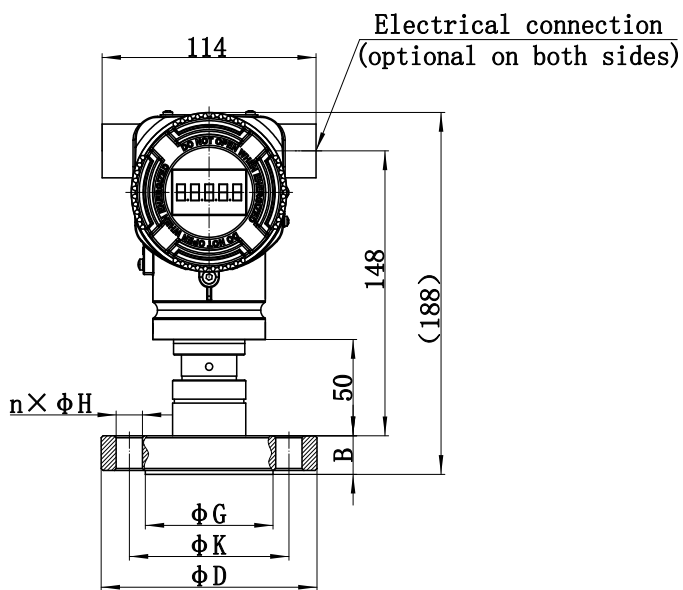
Hazardous Area

	Ex Standards (association)	Mark	Standard
Hazardous area	Ex Intrinsically safe (PCEC)	Ex ia IIC T4 Ga	GB/T 3836.1-2021 GB/T 3836.4-2021
	Ex Flameproof (PCEC)	Ex db IIC T6 Gb	GB/T 3836.1-2021 GB/T 3836.2-2021
	Ex Dust ignition protection (NEPSI)	Ex tb IIC T85°C Db	GB/T 3836.1-2021 GB/T 3836.31-2021
	ATEX Intrinsically safe (CSA)	II 1G Ex ia IIC T4 Ga	EN IEC 60079-0:2018 EN 60079-11:2012
	ATEX Flameproof (CSA)	II 2G Ex db IIC T6 Gb	EN IEC 60079-0:2018 EN 60079-1: 2014
	ATEX Dust ignition protection (CSA)	II 2D Ex tb IIIC T80°C Db	EN IEC 60079-0:2018 EN 60079-31: 2014
	IECEx Intrinsically safe (CSA)	Ex ia IIC T4 Ga	IEC 60079-0: 2017 IEC 60079-11: 2011
	IECEx Flameproof (CSA)	Ex db IIC T6 Gb	IEC 60079-0: 2017 IEC 60079-1: 2014
	IECEx Dust ignition protection (CSA)	Ex tb IIIC T80°C Db	IEC 60079-0: 2017 IEC 60079-31: 2022
	NA Intrinsically safe (CSA)	Class I, Division 1, Groups A, B, C and D T4 Ex ia IIC T4 Ga Class I, Zone 0, AEx ia IIC T4 Ga	CSA C22.2 No. 60079-0:19 CAN/CSA C22.2 No. 60079-11:14(R2023) CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018 ANSI/UL 60079-0-2020 Seventh Edition ANSI/UL 60079-11-2018 (R2023)Sixth Edition ANSI/UL 913-2022 Eighth Edition UL 61010-1, 3rd Edition (2012), AMD1: 2018
	NA Flameproof (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 Ex db IIC T6 Gb Class I, Zone 1, AEx db IIC T6 Gb Ex tb IIIC T80°C Db Zone 21, AEx tb IIIC T80°C Db	CAN/CSA C22.2 No.61010-1-12. UPD1:2015. UPD2:2016.AMD1:2018 CSA C22.2 No.25-17 (R2022) CAN/CSA C22.2 No. 30:20 + UPD1 2023 (R2025) CAN/CSA C22.2 No. 60079-0:19 (R2024) CAN/CSA-C22.2 No.60079-1:16 (R2021) CAN/CSA-C22.2 No.60079-31:25 CAN/CSA C22.2 No. 94.2:20 UL 61010-1. 3rd Edition (2012). AMD1:2018 FM 3600:2022 FM 3615:2022 FM 3616:2022 ANSI/UL 60079-0-2020 Seventh Edition ANSI/UL 60079-1-2020 Seventh Edition ANSI/UL 60079-31-2015 Second Edition ANSI/UL 50E-2020 Third Edition
	EAC Explosion-proof	1Ex db IIC T6 Gb 0Ex ia IIC T4 Ga	TP TC012/2011 GOST 31610.0-2019 GOST 31610.11-2014 GOST IEC 60079-1-2013

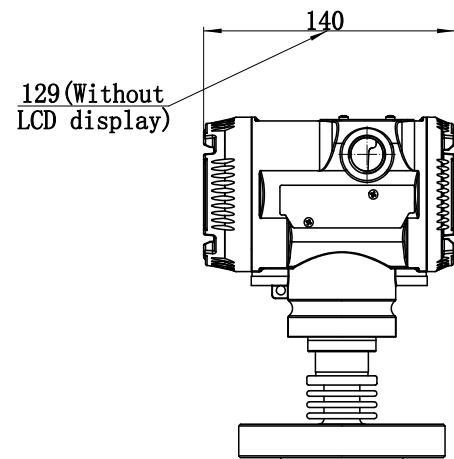
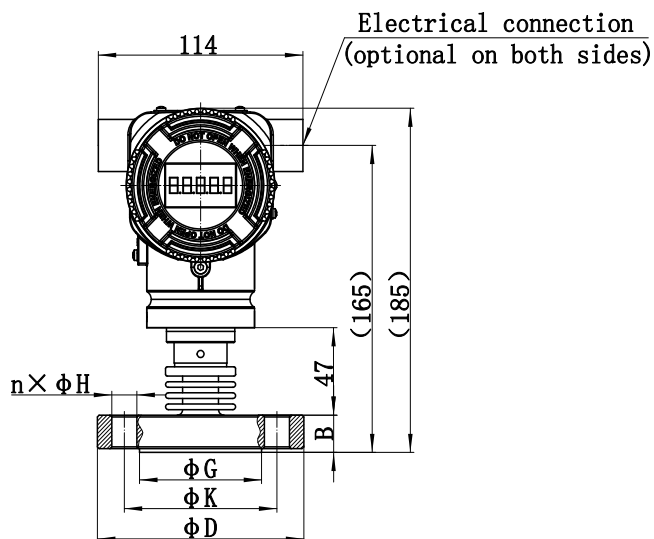
|| Dimensions ||

Unit: mm

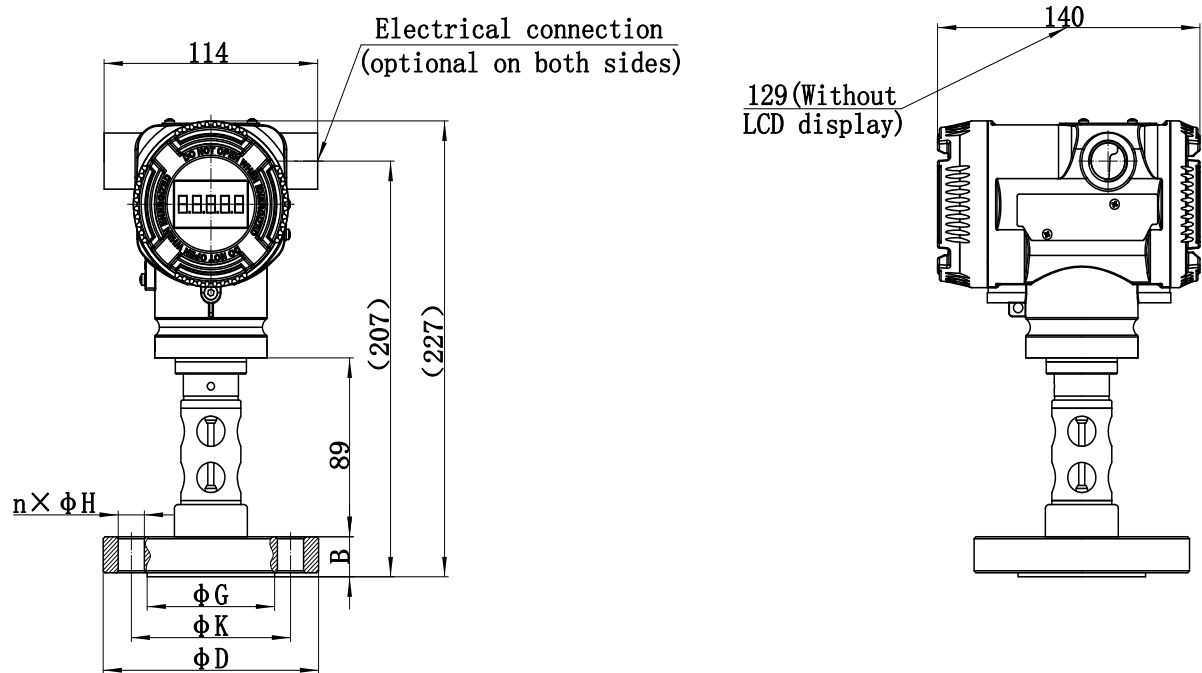
Direct Mounted Flange with Display



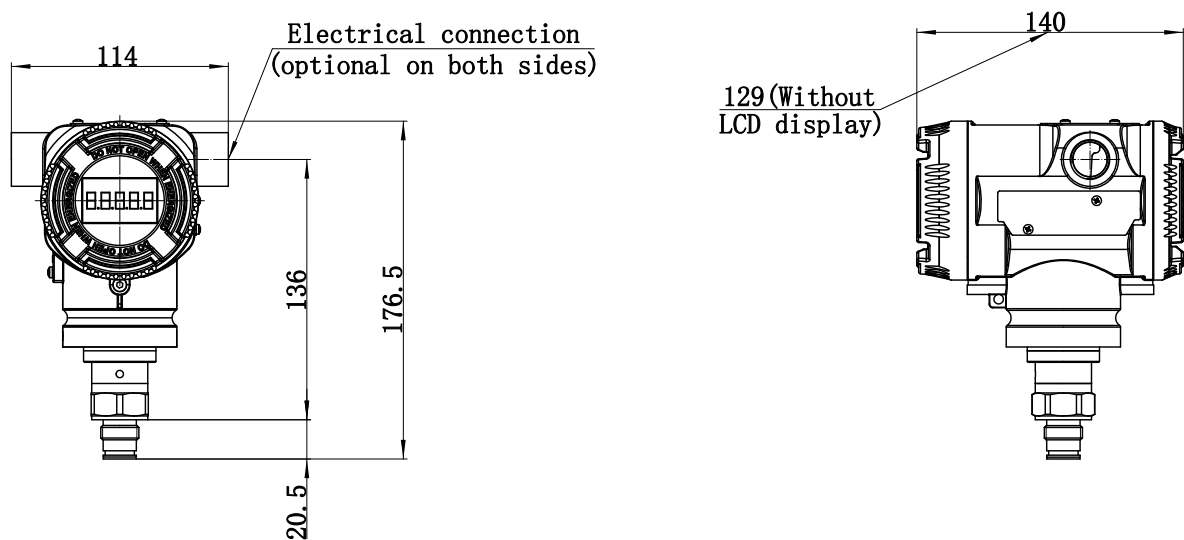
Direct Mounted Flange with Cooling Fins & Display



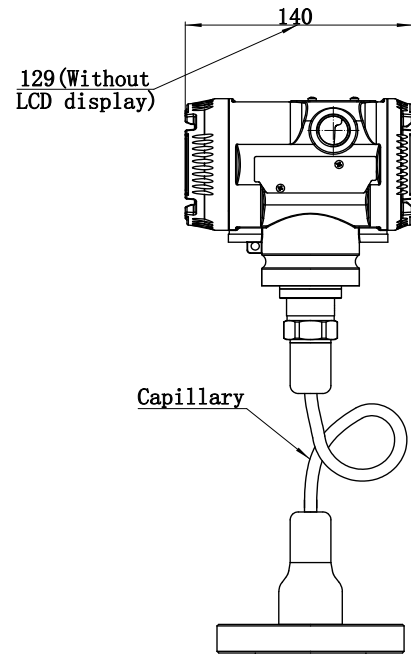
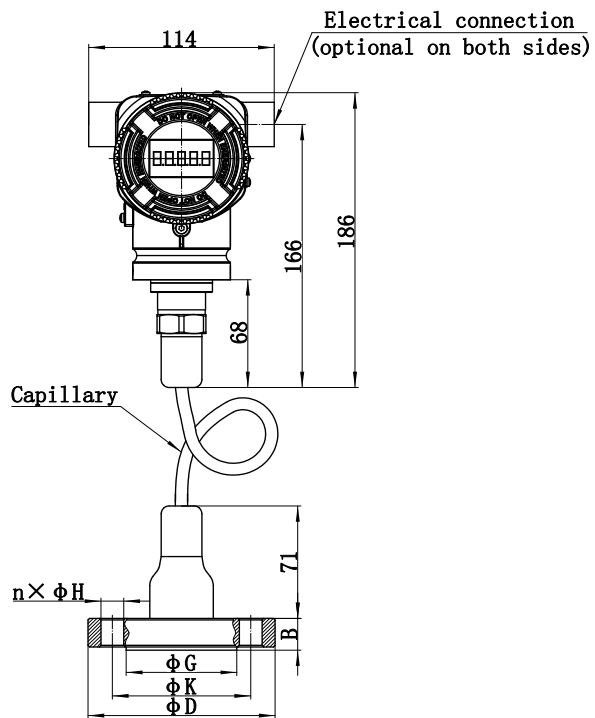
Direct Mounted Flange with Cooling Neck & Display



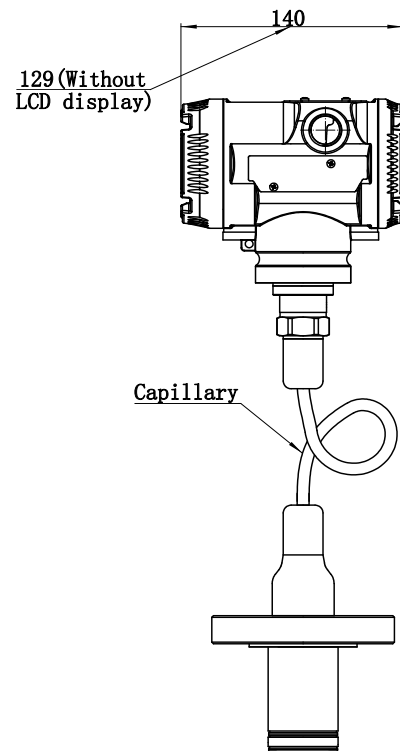
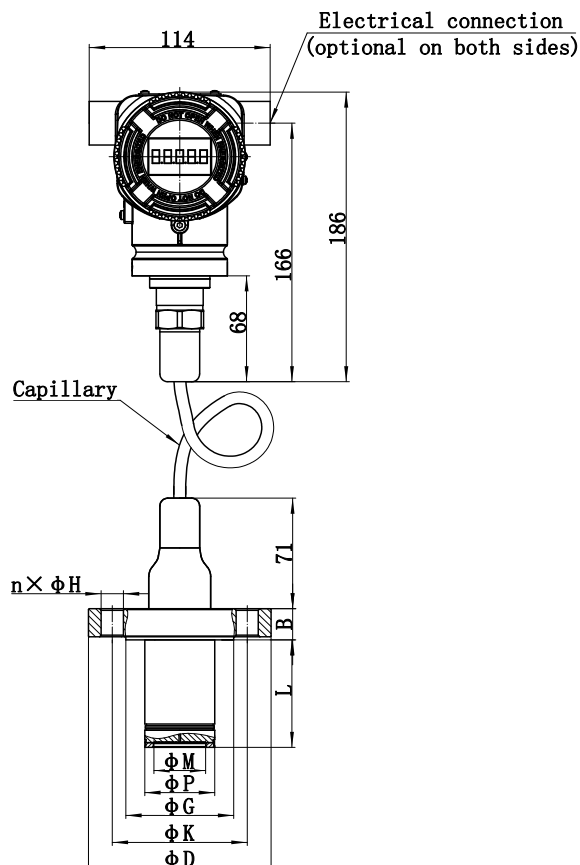
Direct Mounted Thread with Display



Remote Flange With Display



Remote Extended Flange with Display



Order Guide

MDM7000-GP-T/AP-T Smart Pressure Transmitter

Items	Code	Description
MDM7000-GP-T	—	Remote Diaphragm Seal Gauge Pressure Transmitter
MDM7000-AP-T	—	Remote Diaphragm Seal Absolute Pressure Transmitter

Basic options

Application of hazardous area	0	Non-hazardous area		
	1	China, Flameproof, CE23.6650 Ex db IIC T6 Gb, GB/T3836.1-2021, GB/T3836.2-2021		
	2	China, Intrinsically safe, CE23.7688X Ex ia IIC T4 Ga, GB/T3836.1-2021, GB/T3836.4-2021		
	3	China, Dust ignition protection, GYB24.1215X Ex tb III C T85°C Db, GB/T3836.1-2021, GB/T 3836.31-2021		
	4	China, Flameproof, Intrinsically safe		
	5	China, Flameproof, Dust ignition protection, Intrinsically safe		
	A	CSA, Flameproof, Dust ignition protection, CSA26CA80192884X Class I, Division 1, Group A, B, C and D T6 Class II, Division 1 Group E, F and G T80°C Class III Ex db IIC T6 Gb Class I, Zone 1, AEx db IIC T6 Gb Ex tb IIIC T80°C Db Zone 21, AEx tb IIIC T80°C Db		
	B	CSA, Intrinsically safe, CSA24CA80156531X Class I, Division 1, Groups A, B, C and D T4 Ex ia IIC T4 Ga Class I, Zone 0, AEx ia IIC T4 Ga		
	C	CSA, Flameproof, Intrinsically safe		
	E	ATEX, Flameproof, Dust ignition protection, CSANe 25ATEX1107X II 2G Ex db IIC T6 Gb, II 2D Ex tb IIIC T80°C Db		
	F	ATEX, Intrinsically safe, CSANe 24ATEX1178X II 1G Ex ia IIC T4 Ga		
	G	ATEX, Flameproof, Intrinsically safe		
	J	IECEX, Flameproof, Dust ignition protection, IECEX CSA 25.0059X Ex db IIC T6 Gb, Ex tb IIIC T80°C Db		
	K	IECEX, Intrinsically safe, IECEX CSA 24.0045X Ex ia IIC T4 Ga		
	L	IECEX, Flameproof, Intrinsically safe		
	M	EAC, Explosion-proof, RU C-CN.AXK58.B.05884/24 1Ex db IIC T6 Gb, 0Ex ia IIC T4 Ga		
Output signal	H	4mA~20mA DC, HART7		
	B	4mA~20mA DC, HART5, bluetooth		※
	V	1V~5V DC low power ^①		※
	R	Modbus-RS485 ^②		※
Note: ^① The accuracy for 1V~5V DC low power is 0.1%. ^② Modbus RTU protocol.				
Housing	S	Cast 316L SS housing, 2 × M20×1.5 female entries		※
	U	Cast 316L SS housing, 2 × 1/2 NPT female entries ^①		※
	P	Aluminum alloy housing (polyester resin coated), 2 × M20×1.5 female entries		
	N	Aluminum alloy housing (polyester resin coated), 2 × 1/2 NPT female entries ^①		
	D	Low copper and zinc housing (polyester resin coated) ^② , 2 × M20×1.5 female entries		※
	A	Aluminum alloy housing (polyurethane coated), 2 × M20×1.5 female entries		※
	B	Aluminum alloy housing (polyurethane coated), 2 × 1/2 NPT female entries ^①		※
Note: ^① For 1/2 NPT female entry, cable gland must be Code 0 or Code B. ^② w(Cu)≤0.1%, w(Zn)≤0.15%				

Glands & adapters		Specification	Material	Applicable wire diameter	IP rating
	0	None (No cable glands)			
	A	Single-ended flameproof plug ^① , M20×1.5	316 SS		
	B	Single-ended flameproof plug ^① , 1/2NPT	316 SS		
	1	M20×1.5 Cable gland (watertight) with plug	PVC	6mm~12mm	IP67
	2	Non-flameproof adapter M20x1.5 (M) to M20x1.5 (F) , with plug	316 SS	6mm~8mm	IP67
	3	Flameproof adapter ^① M20x1.5 (M) to 1/2 NPT (F) , with plug	316 SS	6mm~12mm	IP67
	4	Flameproof adapter ^① M20x1.5 (M) to M20x1.5 (F) , with plug	316 SS	6mm~12mm	IP67
	5	Flameproof adapter ^① M20x1.5 (M) to G1/2 (F) , with plug	316 SS	6mm~12mm	IP67

Note: ^① Chinese flameproof approval by default

Display	N	Without LCD display, explosion proof type -40°C ~70°C , non-explosion proof type -50°C ~85°C
	L	With LCD display, explosion proof type/non-explosion proof -40°C ~70°C

Range		Nominal range	Minimum range	Lower (LRL)	Upper (URL)	Overpressure
GP-T	2	0.4bar	20mbar	-0.4bar	0.4bar	10bar
	3	2.5bar	125mbar	-1bar	2.5bar	40bar
	4	10bar	0.5bar	-1bar	10bar	60bar
	5	30bar	1.5bar	-1bar	30bar	150bar
	6	100bar	5bar	-1bar	100bar	200bar
AP-T	2	0.4bar	0.2bar	0bar	0.4bar	10bar
	3	2.5bar	0.5bar	0bar	2.5bar	40bar
	4	10bar	2bar	0bar	10bar	60bar
	5	30bar	3bar	0bar	30bar	150bar

Sensor structure	T	Single isolation diaphragm
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■ Diaphragm seal options

Diaphragm connection position	S	Pressure transmitter
Diaphragm seal system code ^①	T	Direct mounted flange
	R	Direct mounted thread
	F	Remote fixed flange
	E	Remote fixed flange insertion sleeve

Note: ^① Select module options per diaphragm seal system code.

Diaphragm seal system code T: Direct mounted flange, options as follows —



Flange standard	2	HG/T-20592
	1	EN1092-1
	5	HG/T-20615
	6	ANSI/ASME B16.5

Flange diameter			Applicable standard	
A	DN25 ^①		HG/T-20592, EN1092-1	※
B	DN50		HG/T-20592, EN1092-1	
C	DN80		HG/T-20592, EN1092-1	
D	DN100		HG/T-20592, EN1092-1	
1	1inch ^①		HG/T-20615, ANSI/ASME B16.5	※
2	2inch		HG/T-20615, ANSI/ASME B16.5	
3	3inch		HG/T-20615, ANSI/ASME B16.5	
4	4inch		HG/T-20615, ANSI/ASME B16.5	

Note: ^① Diaphragm shall be 316L SS or Hastelloy C; consult the MICROSENSOR for others.

Pressure class			Applicable standard	Applicable flange diameter
1	PN10/PN16		HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100
2	PN25/PN40		HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100
3	PN63		HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100
4	PN100		HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100
A	Class 150		HG/T-20615, ANSI/ASME B16.5	1inch, 2inch, 3inch, 4inch
B	Class 300		HG/T-20615, ANSI/ASME B16.5	1inch, 2inch, 3inch, 4inch
C	Class 600		HG/T-20615, ANSI/ASME B16.5	1inch, 2inch, 3inch, 4inch

Flange material	6	316 SS		
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Flange sealing face	1	RF Raised face ^①		
	A	FM Female face ^②		※
	B	M Male face ^③		※
	C	RJ Ring joint face ^④		※

Note: ^① Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class 150~Class 2500

^② Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class 300~Class2500

^③ Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class300~ Class2500

^④ Flange diameter DN25~DN100 or 1in~4in, flange pressure PN63~PN160 or Class 150~Class2500

Wetted parts material		Measuring diaphragm		
	6A	316L		
	6B	HC-276		
	6C	Tantalum		※
	6D	Titanium		※
	6E	Monel		※
	LV	316L, high vacuum high temperature		※
	TV	Tantalum, high vacuum high temperature		※
	LJ	316L+gold plated (8μ)		※
	HJ	HC-276+gold plated (8μ)		※
	MJ	Monel+gold plated (8μ)		※
	LP	316L+PTFE coating		※
	HP	HC-276+PTFE coating		※
	TP	Tantalum+PTFE coating		※
	LA	316L+PFA coating		※
	HA	HC-276+PFA coating		※

Heat dissipation accessory	0	Without heat dissipation accessory, ≤85°C	
	1	High-temperature heat dissipation accessory, ≤150°C	※
	2	Ultra-high-temperature heat dissipation accessory, ≤300°C ^①	※

Note: ^① High-temperature silicone oil (Code: H) shall be selected for fill oil.

Diaphragm seal system code R: Direct mounted thread, options as follows —



Process connection	1M	Male M44×1.25, GB/T193-2003, ISO261
	2M	Male M20×1.25 ^① , GB/T193-2003, ISO261
	1G	Male G1, GB/T7307, ISO228, DIN16288, BS2779
	2G	Male G2, GB/T7307, ISO228, DIN16288, BS2779
	3G	Male G1-1/2, GB/T7307, ISO228, DIN16288, BS2779
	4G	Male G1/2, GB/T7307 ^① , ISO228, DIN16288, BS2779

Note: ^① Actual span shall be ≥2.5bar.

Sealing type	R	Root
	A	Axial
	U	Root and axial

Wetted parts material		Measuring diaphragm	Thread	O-ring
	6A	316L	316	FKM
	6B	HC-276	316	FKM
Heat dissipation accessory	0	Without heat dissipation accessory, ≤85°C		
	1	High-temperature heat dissipation accessory, ≤150°C		
	2	Ultra-high-temperature heat dissipation accessory, ≤300°C ^①		

Note: ^① Only high-temperature silicone oil(code: H) option is available

Diaphragm seal system code F: Remote fixed flange, options as follows —



Flange standard	2	HG/T-20592
	1	EN1092-1
	5	HG/T-20615
	6	ANSI/ASME B16.5

Flange diameter		Applicable standard		
A	DN25 ^①	HG/T-20592, EN1092-1		※
B	DN50	HG/T-20592, EN1092-1		
C	DN80	HG/T-20592, EN1092-1		
D	DN100	HG/T-20592, EN1092-1		
1	1inch ^①	HG/T-20615, ANSI/ASME B16.5		※
2	2inch	HG/T-20615, ANSI/ASME B16.5		
3	3inch	HG/T-20615, ANSI/ASME B16.5		
4	4inch	HG/T-20615, ANSI/ASME B16.5		

Note: ^① Diaphragm shall be 316L SS or Hastelloy C; consult the MICROSENSOR for others.

Pressure class			Applicable standard	Applicable flange diameter	
	1	PN10/PN16	HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100	
	2	PN25/PN40	HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100	
	3	PN63	HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100	
	4	PN100	HG/T-20592, EN1092-1	DN25, DN50, DN80, DN100	※
	A	Class 150	HG/T-20615, ANSI/ASME B16.5	1inch, 2inch, 3inch, 4inch	
	B	Class 300	HG/T-20615, ANSI/ASME B16.5	1inch, 2inch, 3inch, 4inch	
	C	Class 600	HG/T-20615, ANSI/ASME B16.5	1inch, 2inch, 3inch, 4inch	※
Flange material	6	316 SS			
Flange sealing face	1	RF Raised face ^①			
	A	FM Female face ^②			※
	B	M Male face ^③			※
	C	RJ Ring joint face ^④			※
Note: ^① Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class 150~Class 2500					
^② Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class 300~Class2500					
^③ Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class300~ Class2500					
^④ Flange diameter DN25~DN100 or 1in~4in, flange pressure PN63~PN160 or Class 150~Class2500					
Wetted parts material			Measuring diaphragm		
	6A	316L			
	6B	HC-276			
	6C	Tantalum			※
	6D	Titanium			※
	6E	Monel			※
	LV	316L, high vacuum high temperature			※
	TV	Tantalum, high vacuum high temperature			※
	LJ	316L+gold plated (8μ)			※
	HJ	HC-276+gold plated (8μ)			※
	MJ	Monel+gold plated (8μ)			※
	LP	316L+PTFE coating			※
	HP	HC-276+PTFE coating			※
	TP	Tantalum+PTFE coating			※
	LA	316L+PFA coating			※
	HA	HC-276+PFA coating			※
Capillary connection location	K	Rear connection			
Capillary type	U	3.5mm OD, armored 316L SS, PVC gray sheath			
	L	3.5mm OD, armored 316L SS, stainless steel bellows sheath			※
Capillary length	1	1m			
	2	2m			
	3	3m			
	4	4m			
	5	5m			
	6	6m ^①			※
	7	7m ^①			※
	8	8m ^①			※
	9	9m ^①			※
	A	10m ^①			※

Note: For high and low-temperature conditions, flanges of DN80 or above are recommended

Diaphragm seal system code E: Remote fixed extended flange, options as follows —



Flange standard	2	HG/T-20592		
	1	EN1092-1		
	5	HG/T-20615		
	6	ANSI/ASME B16.5		
Flange diameter			Applicable standard	
	B	DN50	HG/T-20592, EN1092-1	
	C	DN80	HG/T-20592, EN1092-1	
	D	DN100	HG/T-20592, EN1092-1	
	2	2inch	HG/T-20615, ANSI/ASME B16.5	
	3	3inch	HG/T-20615, ANSI/ASME B16.5	
	4	4inch	HG/T-20615, ANSI/ASME B16.5	
Pressure class			Applicable standard	Applicable flange diameter
	1	PN10/PN16	HG/T-20592, EN1092-1	DN50, DN80, DN100
	2	PN25/PN40	HG/T-20592, EN1092-1	DN50, DN80, DN100
	3	PN63	HG/T-20592, EN1092-1	DN50, DN80, DN100
	4	PN100	HG/T-20592, EN1092-1	DN50, DN80, DN100 ※
	A	Class 150	HG/T-20615, ANSI/ASME B16.5	2inch, 3inch, 4inch
	B	Class 300	HG/T-20615, ANSI/ASME B16.5	2inch, 3inch, 4inch
	C	Class 600	HG/T-20615, ANSI/ASME B16.5	2inch, 3inch, 4inch ※
Flange material	6	316 SS		
Flange sealing face	1	RF Raised face ^①		
	A	FM Female face ^②		※
	B	M Male face ^③		※
	C	RJ Ring joint face ^④		※
Note: ^① Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class 150~Class 2500				
^② Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class 300~Class2500				
^③ Flange diameter DN25~DN100 or 1in~4in, flange pressure PN10~PN160 or Class300~ Class2500				
^④ Flange diameter DN25~DN100 or 1in~4in, flange pressure PN63~PN160 or Class 150~Class2500				
Insertion sleeve diameter			Applicable flange diameter	
	4	46mm	DN50, 2inch	
	6	66mm	DN80, 3inch	
	7	77mm	DN100, 4inch	
Insertion sleeve length	A	50mm		
	B	100mm		
	C	150mm		
	D	200mm		
Insertion sleeve material	6	316 SS		
Wetted parts material		Measuring diaphragm		
	6A	316L		
	6B	HC-276		
	6C	Tantalum		※
	6D	Titanium		※
	6E	Monel		※

	LV	316L, high vacuum high temperature	※
	TV	Tantalum, high vacuum high temperature	※
	LJ	316L+gold plated (8μ)	※
	HJ	HC-276+gold plated (8μ)	※
	MJ	Monel+gold plated (8μ)	※
	LP	316L+PTFE coating	※
	HP	HC-276+PTFE coating	※
	TP	Tantalum+PTFE coating	※
	LA	316L+PFA coating	※
	HA	HC-276+PFA coating	※
Capillary connection location	K	Rear connection	
Capillary type	U	3.5mm OD, armored 316L SS, PVC gray sheath	
	L	3.5mm OD, armored 316L SS, stainless steel bellows sheath	※
Capillary length	1	1m	
	2	2m	
	3	3m	
	4	4m	
	5	5m	
	6	6m ^①	※
	7	7m ^①	※
	8	8m ^①	※
	9	9m ^①	※
	A	10m ^①	※

Note: ^① For high and low-temperature conditions, flanges of DN80 or above are recommended

General diaphragm seal options

Oil filled	S	Standard silicone oil (Medium temperature : -40°C ~200°C)	
	H	High temperature silicone oil (Medium temperature: 0°C ~315°C)	
	L	Low temperature silicone oil (Medium temperature: -50°C ~120°C)	※
	E	Fluorinated oil (Medium temperature: -40°C ~85°C)	※

Nameplate material	4	304 SS	
	6	316L SS	
Language ^①	CN	Chinese documents	
	LE	English documents	
	LR	Russian documents	

Note: ^① Factory documentation includes nameplate, operation manual, certificate of conformity, and factory verification report.

Factory calibration range	CAL	Provide MICROSENSOR standard verification report based on the range, default linear output Contract specifies: LRL - URL, display unit*	
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■ Options-Certificates

Approvals	/CS1	CCS, China Classification Society, XA25PTB00017	
	/CS2	DNV, Det Norske Veritas, TAA00000Y1	
	/CS3	BV, Bureau Veritas, 77759/A0 BV	
	/CS4	ABS, American Bureau of Shipping, 24-2536413-PDA	
	/CS5	LR, Lloyd's Register, LR2520052TA	
	/CS6	KR, Korean Register, NAJ50160-AE001	
	/CS7	NK, Nippon Kaiji Kyokai, TA24376M	
	/CS8	RS, Russian Maritime Register of Shipping, 24.44.01.01398.266	
Metrological certification (Russia & CIS)	/PAC	Pattern Approval Certificate of Measuring Instruments, Russia, 94159-24	
	/PBY	Pattern Approval Certificate of Measuring Instruments, Belarus, 18634	

■ Options-Specifications

Mounting bracket accessories	/G10	Standard L-bracket, 316 SS	
	/G11	Standard L-bracket, Q235 Carbon steel	
	/G12	Standard L-bracket, 316L SS	
Verification report	/Q1	Provide data according to the customer's template requirements. Contract specifies: LRL - URL, display unit and other requirements*	※
Note: Standard Micro Sensor format. For custom formats, please select this option and provide a template.			
Damping time setting	/ST	Adjustable range 0s~100s, default 0s Contract specifies: Damping time*	
Fault alarm setting	/WH	High alarm current value, 21mA	
	/WL	Low alarm current value, 3.7mA, default	
Tag plate	/PT	Supplied with 316L SS hanging tag plate Contract specifies: Tag content (max. 16 characters)*	
Diaphragm sticking	/PFA	PFA foil (protective cover) on diaphragm, for corrosive applications	※
Note: Corrosive application applies to non-vacuum conditions with process pressure ≥ 0 (positive pressure).			
Oil-free treatment	/CL1	Degreasing and cleaning treatment of the wetted parts	※
Note: Fluorinated oil (code: E) shall be selected for oxygen condition			
Delivery service	/XM	In addition to standard documents, any documentation required for project acceptance shall be specified with a detailed list upon ordering	※
Accuracy	/AL5	$\pm 0.1\%$	
	/AL6	$\pm 0.2\%$	
	/AL7	$\pm 0.5\%$	

***Note:** Specifications for options shall be specified in the contract. Products marked with (※) have extended lead times.

Example: MDM7000-GP-T-0HP1L-2T-SF-2B1616AKU3S-4CN/CS1/AL5- 【CAL: 0bar~0.4bar】