



MDM7000-LT

























Nominal range	Minimum range	Lower (LRL)	Upper (URL)	
0.4bar 0.1bar		-0.4bar	0.4bar	
2.5bar	0.25bar	-2.5bar	2.5bar	

LRV/URV setting: the lower limit value (LRV) and upper limit value (URV) are achieved between the upper and lower limits. If | URV | \geq LRV | , | URV | must be larger than the minimum pressure; if | URV | < | LRV | , | LRV | must be larger than the minimum pressure. It is recommended to choose a range ratio with the minimum possible value.

ACCURACY

- Stated reference accuracy include best fit straight line(BFSL), hysteresis, and repeatability as per the standard and reference test conditions.
- Calibration temperature: 20°C ±5°C, based on Zero value.
- Total performance is based on combined errors of indoor temperature accuracy, ambient temperature effects and static pressure effects, calculated by the following formula: Total performance= $\pm v$ ((E1)² + (E2)² + (E3)²);

E1=Indoor temperature accuracy E2=Ambient temperature effects E3=Static pressure effects

				50
Linear output	TD ① ≤5	±0.25%+Diaphragm seal system effects	0.4bar. 2.5bar	4 Ve
accuracy	TD>5	±(0.025×0.045TD% + Diaphragm seal system effects	0.4bai, 2.5bai	5.202

Note: 1 TD(Turn down) represents the range ratio, TD= Maximum range / Current range. [Maximum range = URL (same as factory calibration range); Current range = SPAN (equivalent to |URV-LRV|)].



SPECIFICATIONS

±0.2% URL + Diaphragm seal system effects				
0.4bar~2.5bar, see the specifications for details				
Long-term stability ±0.2% Span/5 years				
re effects The total effect per 10°C in the range of -20°C ~80°C: (0.375+0.125TD)%/10°C of SPAN				
When the power supply voltage changes within 10.5V/16.5V \sim 55V DC, its zero point and range change should not exceed \pm 0.005% URL/V				
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.				
< 0.1% SPAN as per GB/T18271.3/IEC61298-3				
4mA~20mA DC, HART				
IP67				
Weight With DN50 flange: About 12.6kg (excluding capillary tube) With DN80 flange: About 15.5kg (excluding capillary tube)				

Note: ① The accuracy is dependent on the range. Please consult the engineer for details.
② 16.5V is the voltage required for adding a 250 Ω resistor to the HART carrier.

EMC EFFECTS

SN	Test items	Basic Standards	Test Conditions	Performance Level
1	Radiated interference (Case)	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 (ESD) immunity test	GB/T 17626.2/IEC61000-4-2	4kV(Contact), 6kV(Air)	В
4	Radiated, radio-frequency, electromagnetic field immunity test	GB/T 17626.3/IEC61000-4-3	10V/m (80MHz~1GHz)	А
5	Power frequency magnetic field immunity test	GB/T 17626.8/IEC61000-4-8	30A/m	А
6	Electrical fast transient / burst Immunity test	GB/T 17626.4/IEC61000-4-4	2kV(5/50ns,100kHz)	В
7	Surge immunity test	GB/T 17626.5/IEC61000-4-5	500V(line to line) 1kV (line to ground) (1.2/50μs)	В
8	Immunity to conducted disturbances induced by radio-frequency fields	GB/T 17626.6/IEC61000-4-6	3V(150kHz~80MHz)	А

Note: At performance level A, the performance is normal within the limits of the technical specifications. At performance level B, functions or performance are temporarily reduced or lost, but can be restored by themselves, and the actual operating conditions, storage and data remain unchanged.

ENVIRONMENTAL CONDITIONS

Items	Conditions	
Operating temperature	Without LCD display: -40°C ~85°C; with LCD display: -20°C ~70°C	
Storage temperature	Without LCD display: -40°C ~100°C ; with LCD display: -40°C ~85°C	
Operating humidity	5%RH~100%RH@40°C	

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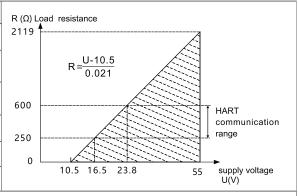
DIAPHRAGM OPERATING TEMPERATURE

Filling oil type ①	Code	Medium temperature	Diaphragm ambient temperature
Normal temperature silicone oil	S	-40°C ~ 205°C	-40°C ~ 85°C
Inert filling oil	D	-45°C ~ 160°C	-40°C ~ 85°C
High temperature silicone oil	Н	0°C ~ 315°C	0°C ~ 85°C

Note: 1 This item is related to the type of silicone oil filled and the o-ring; the temperature range of non-silicone oil is limited to the lowest material temperature range in the system. For short-pipe explosion-proof products, users need to ensure that the surface temperature of the shell is not higher than 80°C. If uncertain, the medium temperature must be ensured not to be higher than the T6/T80°C temperature group.

POWER SUPPLY AND LOAD REQUIREMENTS

Items	Conditions		
	HART communication protocol: 16.5V~55V DC ①		
Power supply voltage	Intrinsically safe HART communication protocol: 18.5V~28V DC		
Load resistance	0Ω ~2119 Ω ② for operation mode; 250 Ω ~600 Ω for HART communication		
Transmission distance	<1000m		
	Power consumption		
4mA~20mA	≤500mW@24V DC, 20.8mA		



Note: ① Non intrinsically safe power supply voltage can be selected as 10.5V. Please consult engineers for details. ② $2119\Omega = (55V-10.5V)/21mA$

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

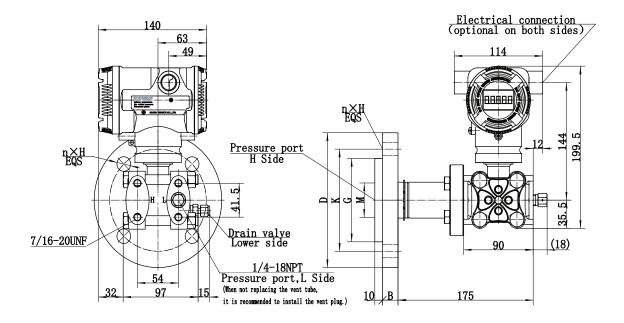
Factory reset time: ≤31s

HAZARDOUS AREA

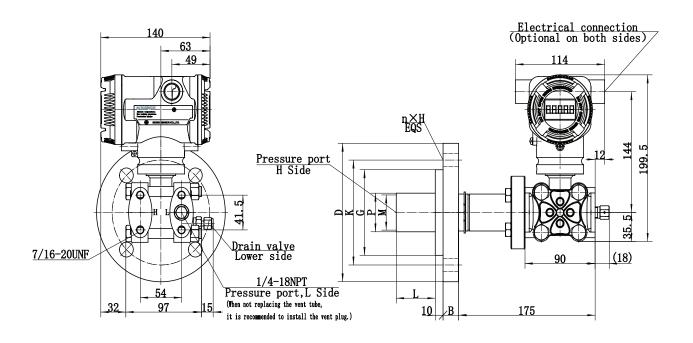
	PCEC	Ex db IIC T6 Gb Ex ia IIC T4 Ga	
	NEPSI	Ex tb III C T85°C Db	
	ATEX	Ex ia IIC T4 Ga II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80°C Db	
Hazardous area ①	IECEX	Ex ia IIC T4 Ga Ex db IIC T6 Gb Ex tb IIIC T80°C Db	
	CSA	Class I, Division 1, Group A, B, C and D T6 Class II, Division 1 Group E, F and G 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	
Note: 1 Please consult eng	gineers for details.		

Note: The gland head is sent as an accessory with the product when it leaves the factory, and it is to be installed by the user.

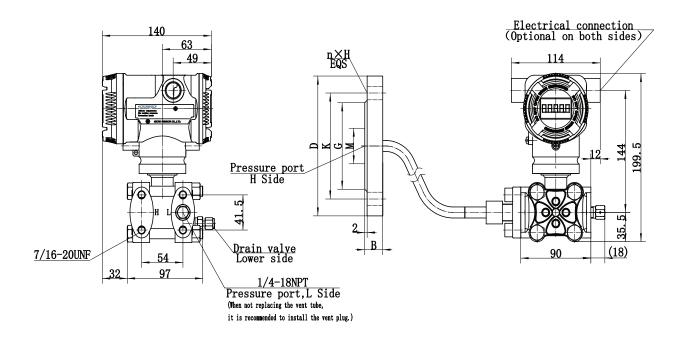
Side Mounted Flange With Display (Same as Without Display)



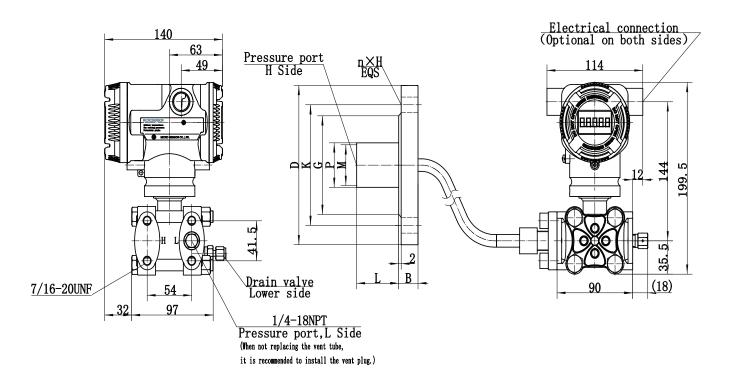
Side Mounted Flange Insertion Sleeve With Display (Same as Without Display)



Remote Flange With Display (Same as Without Display)

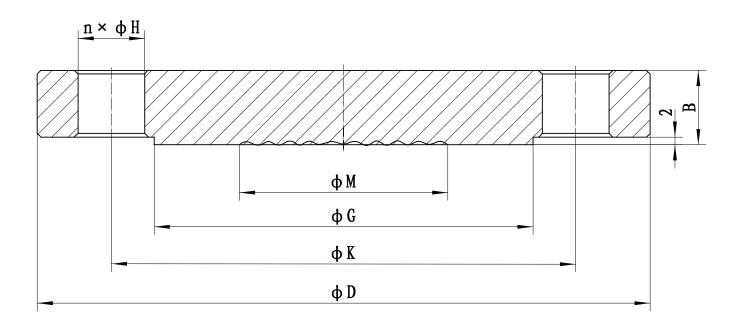


Remote Flange Insertion Sleeve With Display (Same as Without Display)



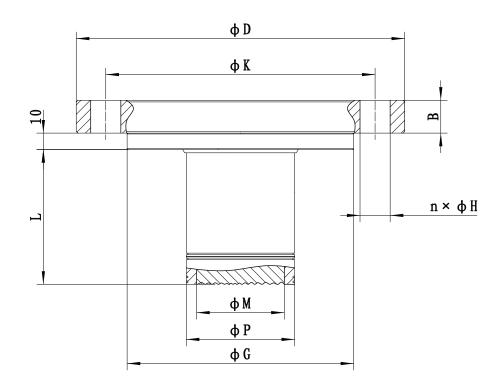


PROCESS CONNECTION



Standard	Specification	Outer diameter (φD)	Thickness (B)	Hole circumference (φK)	
HG/T20592-2009	DN50PN10	165	20	125	
HG/T20592-2009	DN80PN10	200	20	160	
HG/T20592-2009	DN100PN10	220	20	180	
RF diameter (φG)	Hole diameter (φH)	Quantity (n)	Corrugation diameter (φM)		
102	18	4	56		
138	18	8	56		
158	18	8	56		





Standard	Specification	Outer diameter(φD)	Thickness(B)	RF 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
HG/T20592-2009	DN50PN10	165	20	102	125
HG/T20592-2009	DN50PN10	165	20	102	125
HG/T20592-2009	DN50PN10	165	20	102	125
Quantity (n)	Hole diameter (φH)	Insertion sleeve diameter (φP)	Insertion sleeve length (L)	Corrugation diameter (φM)	
8	18	66	50		42
8	18	66	100		42
8	18	66	150	42	
4	18	46	150	42	
4	18	46	50		42
4	18	46	100		42



MDM7000-LT Body HN Side Mounted Movable Flange Diaphragm

Items	Code	Description							
MDM7000-LT	_	Monocrystalline Silicon Differential Pressure Tr Insertion Sleeve)	ransmitter Si	de Mounted Diaph	ragm Seal (Side	Mounted Movable Flange			
Application of ha	zardous a	rea							
	1	China, Flameproof certificate, No.CE23.6650 Ex db IIC T6 Gb, GB/T3836.1-2021, GB/T3836	6.2-2021			PCEC			
	2		a, Intrinsically safe certificate, No.CE23.7688X IIC T4 Ga, GB/T3836.1-2021, GB/T3836.4-2021						
	3	China, Dust explosion-proof certificate, GYB24 Ex tb III C T85°C Db, GB/T3836.1-2021, GB/T)21		Ex			
	4	China, Flameproof certificate, Intrinsically safe	certificate						
	Α	CSA, Flameproof certificate							
	В	CSA, Intrinsically safe certificate				(\$ ₽®			
	С	CSA, Flameproof certificate, Intrinsically safe o	certificate			c Us			
	Е	ATEX, Flameproof certificate							
	F	ATEX, Intrinsically safe certificate				$\langle \mathbf{E_x} \rangle$			
	G	ATEX, Flameproof certificate, Intrinsically safe	certificate						
	J	IECEx, Flameproof certificate		150 178					
	K	IECEx, Intrinsically safe certificate	Ex, Intrinsically safe certificate						
	L	IECEx, Flameproof certificate, Intrinsically safe	e certificate						
	0	Non-hazardous area							
	Т	Other certificate							
Output signal	Н	4mA~20mA DC, HART				HART COMMUNICATION PROTOCOL			
	S	Stainless steel case with two outlet ports (F) M	l20×1.5						
2000	U	Stainless steel case with two outlet ports (F) 1,	/2NPT						
Case	Р	Aluminum alloy case with two outlet ports (F)	M20×1.5						
	N	Aluminum alloy case with two outlet ports (F) 2	1/2NPT						
Note: Please pay	attention	to the item of lithium battery (Code: LD)							
Waterproof/explo	sion-proo	f connector				Challe			
		Specification	Material	Applicable wire diameter	IP rating				
	1	M20×1.5 waterproof connector, with plug	PVC	6mm~8mm	IP67				
	2	Non-flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67	ja mjini			
	3	Flameproof adapter (F) 1/2NPT, with plug	IP67						
	4	Flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67	والهام ما			
	5	Flameproof adapter (F) G1/2, with plug	316 SS	6mm~8mm	IP67				
Note: Flameproo engineer if doubl	f configurate	ation is applicable to PCEC/ATEX/IECEx standa	ards. Flame _l	proof adapter with	CCC certificate	e. Please contact the			
	N	Without LCD display							
Display		Display module, -20°C ~70°C							



		Nominal range	Minimu	n range	Lower (LRL)	Upper (URL)		
-	2	0.4bar	0.1	bar	-0.4bar	0.4bar		
-	3	2.5bar	0.25	bar	-2.5bar	2.5bar		
Low pressure side w	etted p	arts			1	1		
		Diaphragm	Flange bl	ock	Discharge valve/ plug	Sealings		
	А	316L	31	.6	316	FKM		
_	В	316L	31	.6	316	Glass-filled PTFE		
_	С	HC-276	31	.6	316	FKM		
	D	HC-276	31	.6	316	Glass-filled PTFE		
l our proceure eide		Specification	ns	Drain/ve	ent valve position	Thread	Mounting method	
Low pressure side clamp flange process	2	Female 1/4-	18NPT	Above th	ne side of flange	7/16-20UNF (F)	Horizontal	
connection	3	Female 1/4-	18NPT	Under th	ne side of flange	7/16-20UNF (F)	Horizontal	
	S	Normal temp	Normal temperature silicone oil(Medium temperature : -40°C ~205°C , diaphragm amb					environment: -40°C ~85°C)
Low pressure side ifill oil	D	Inert oil (Me	dium temp	erature: -4	45°C ~160°C ,diaphra	agm ambient environ	ment:-40°C ~85	5°C)
iiii Oii .	Н	High temperature silicone oil (Me			dium temperature: 0	°C ~315°C , diaphrag	gm ambient envi	ronment: 0°C ~85°C)
Clamp flange fastener	6	Bolts, nuts a	Bolts, nuts and other assemblies, 316 SS					
	_	•						
Diaphragm connection position	Н	Differential p	ifferential pressure transmitter high pressure side					
Diaphragm seal system code	N	Side mounte	d movable	flange ins	ertion sleeve			
	_							
Flange standard	2	HG/T-20592)					
-	1	EN1092-1						
	5	HG/T-20615)					
-	6	ANSI/ASME	B16.5					
			-		Applicable standa	rd		
-	В		DN50		HG/T-20592, EN10	92-1		
-	С		DN80		HG/T-20592, EN10	92-1		
Flange diameter	D		DN100		HG/T-20592, EN1092-1			
-	2		2inch		HG/T-20615, ANSI/ASME B16.5			
-	3		3inch		HG/T-20615, ANSI			
-	4		4inch		HG/T-20615, ANSI	/ASME B16.5		
					Applicable standa	rd	Applicable fla	nge diameter
-	1	PN10/PN16			HG/T-20592, EN10	92-1	DN50, DN80, E	DN100
-	2	PN25/PN40			HG/T-20592, EN10	92-1	DN50, DN80, E	DN100
-	3	PN63			HG/T-20592, EN10		DN50, DN80	
Pressure class	4	PN100			HG/T-20592, EN10		DN50, DN80	
					HG/T-20615, ANSI		2inch, 3inch, 4	linch
-	Α	Class 150			IIU/ I-Z0013. AN. 11			HILICII
-	A B	Class 150 Class 300			HG/T-20615, ANSI		2inch, 3inch, 4	



Flange material	6	316 SS					
	1	RF Raised surface					
Blind sealing	Α	FM Concave surface					
surface	В	M Convex surface					
	С	RJ Annular connection surface					
Note: For details al	out FM	concave, M convex, RJ annular connection surface, pla	ease consult the engineer				
Wetted parts mater	ial	Please see the material list of wetted parts for details					
		Blind	Measuring diaphragm				
	6A	316 SS	316L				
	6B	316 SS	Hastelloy C-276				
	6C	316 SS	Tantalum				
	6D	316 SS	Titanium				
	6E	316 SS	Monel				
High pressure	S	Normal temperature silicone oil(Medium temperature :	-40°C ~205°C, diaphragm ambient environment: -40°C ~85°C)				
side	D	Inert oil (Medium temperature: -45°C ~160°C ,diaphra	gm ambient environment:-40°C ~85°C)				
fill oil	Н	High temperature silicone oil (Medium temperature: 0°C ~315°C , diaphragm ambient environment: 0°C ~85°C)					
Factory calibration range	CAL	Provide Micro Sensor standard verification report base Contract specifies: LRL - URL, display unit*	d on the range, default linear output				
Options		Description (Detailed specifications as following, mu	ltiple options or null)				
High vacuum high temperature	/V	High vacuum and high temperature process diaphragm (if this option is selected, the accuracy will be affected and cal only up to 0.2%)					
Process	/D1	T-shaped adapter (M) M20×1.5 and vent tube Φ14mm	× 2mm× 30mm, 30, 316 SS				
connection ————————————————————————————————————		Waist-shaped adapter, 1/2-14NPT (F), 316SS					
Verification report	/Q1	Provide the Micro Sensor verification data according to Contract specifies: LRL - URL, display unit and other re					
Note: Standard for	mat follo	ows the Micro Sensor's specifications. Select this option	n and provide the template if the customer specifies a format				
Damping time setting	/ST	Adjustable range 0s~100s, default 0s Contract specifies: Damping time*					
	/WH	High alarm current value, 20.8mA					
	/WL	Low alarm current value, 3.8mA, default					
	/ V V L	LOW alaim current value, 5.0mA, actault					
	/WS	Other saturation current values, specified within the ra Contract specifies: Fixed current value*	nge of 3.6mA~3.8mA or 20mA~22mA				
setting		Other saturation current values, specified within the ra Contract specifies: Fixed current value*	nge of 3.6mA~3.8mA or 20mA~22mA				
Product certificate Identification	/WS	Other saturation current values, specified within the ra Contract specifies: Fixed current value* Standard format follows the Micro Sensor's specification	ons. Select this option and provide the template if the customer				
Product certificate Identification plate Integrated valve	/WS /QE	Other saturation current values, specified within the ra Contract specifies: Fixed current value* Standard format follows the Micro Sensor's specification specifies a format. Product is shipped with a identification plate	ons. Select this option and provide the template if the customering 16 characters* with Micro Sensor valve manifold				
Product certificate Identification plate Integrated valve	/WS /QE /PT	Other saturation current values, specified within the race Contract specifies: Fixed current value* Standard format follows the Micro Sensor's specification specifies a format. Product is shipped with a identification plate Contract specifies: Identification number, not exceed in Differential pressure transmitter is factory assembled to See attachment for order guide of valve manifold Contract specifies: Complete model of Micro Sensor value.	ons. Select this option and provide the template if the customering 16 characters* with Micro Sensor valve manifold				
Product certificate Identification plate Integrated valve manifold Leakage test	/WS /QE /PT /VT	Other saturation current values, specified within the race Contract specifies: Fixed current value* Standard format follows the Micro Sensor's specification specifies a format. Product is shipped with a identification plate Contract specifies: Identification number, not exceed in Differential pressure transmitter is factory assembled to See attachment for order guide of valve manifold Contract specifies: Complete model of Micro Sensor valve PN10/PN16 (class150), Nitrogen (N2) or air, pressure it test report	ons. Select this option and provide the template if the customering 16 characters* with Micro Sensor valve manifold alve manifold*				
Fault alarm setting Product certificate Identification plate Integrated valve manifold Leakage test report	/WS /QE /PT /VT /QD4	Other saturation current values, specified within the race Contract specifies: Fixed current value* Standard format follows the Micro Sensor's specification specifies a format. Product is shipped with a identification plate Contract specifies: Identification number, not exceeding Differential pressure transmitter is factory assembled to See attachment for order guide of valve manifold Contract specifies: Complete model of Micro Sensor valve PN10/PN16 (class150), Nitrogen (N2) or air, pressure in test report PN25/PN40 (class300), Nitrogen (N2) or air, pressure in test report	ons. Select this option and provide the template if the customer ong 16 characters* with Micro Sensor valve manifold alve manifold* holding for 10 minutes, provide Micro Sensor standard leakage				

MDM7000-LT



HART configuration	/H5	HART5 configuration						
Diaphragm with	/J3	Single diaphragm on high pressure side(5μ)						
gold plated	/J4	Double diaphragms on high and low pressure sides(5µ)						
Diaphragm spraying	/T1	ligh pressure side single flange						
Diaphragm sticking	/PFA	The diaphragm is stuck with PFA film, applicable to non-vacuum situations (pressure	≥ 0)					
Oil-free treatment	/CL1	Degreasing and cleaning treatment of the wetted parts						
Note: Please checl	k the fill	oil. Determine whether the inert filling oil is required (code: D).						
	/CS1	CCS, China Classification Society, TJ23PTB00014	11 10 10					
	/CS2	DNV, Det Norske Veritas						
	/CS3	BV, Bureau Veritas						
0	/CS4	ABS, American Bureau of Shipping						
Certificates	/CS5	LR, Lloyd's Register of Shipping						
	/CS6	KR, Korean Register of Shipping						
	/CS7	NK, Nippon Kaiji Kyokai						
	/CS8	RS, Russian Maritime Register of Shipping						
Note: Except for th	e CCS co	ertificate, please consult the engineer for others.						
Lithium battery	/LD	General requirements for low copper and zinc in the lithium battery industry						
High-accuracy	/HAC	High-accuracy calibration according to the user's specified range Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accur	acy*					
Language	/LE	English nameplate, operation manual, product certificate, etc.						
Delivery service	/XM	Provide customer requested content according to project delivery standards						
Extended	/Y3	3-year warranty						
warranty period	/Y5	5-year warranty						
*Mate. The energy	rations r	equired for these options should be specified in the contract.						



 ${\sf MDM7000-LT} = {\sf CCCCC} - {\sf CCCCCC} - {\sf CCCCC} - {\sf CCCCCC} - {\sf CCCCC} - {\sf CCCCCC} - {\sf CCCCC} - {\sf CCCCC$ Body Side Mounted Movable Flange Diaphragm

		Body	Side Mot	unted Movable Flan	ge Diaphragm				
Items	Code	Description							
MDM7000-LT	_	Monocrystalline Silicon Differential Pressure Transmitter Side Mounted Diaphragm Seal (Side Mounted Movable Fl Insertion Sleeve)							
Application of ha	zardous a								
	1	China, Flameproof certificate, No.CE23.6650 Ex db IIC T6 Gb, GB/T3836.1-2021, GB/T3836	6.2-2021			PCEC			
	2	China, Intrinsically safe certificate, No.CE23.76 Ex ia IIC T4 Ga, GB/T3836.1-2021, GB/T3836							
	3	China, Dust explosion-proof certificate, GYB24 Ex tb III C T85°C Db, GB/T3836.1-2021, GB/T	Ex						
	4	China, Flameproof certificate, Intrinsically safe	certificate						
	А	CSA, Flameproof certificate							
	В	CSA, Intrinsically safe certificate				(SP ®			
	С	CSA, Flameproof certificate, Intrinsically safe of	ertificate			c Us			
	Е	ATEX, Flameproof certificate							
	F	ATEX, Intrinsically safe certificate				$\langle \epsilon_{x} \rangle$			
	G	ATEX, Flameproof certificate, Intrinsically safe	certificate						
	J	IECEx, Flameproof certificate	IECEx, Flameproof certificate						
	K	IECEx, Intrinsically safe certificate				IEC IECEX			
	L	IECEx, Flameproof certificate, Intrinsically safe	e certificate						
	0	Non-hazardous area							
	Т	Other certificate							
Output signal	Н	4mA~20mA DC, HART				COMMUNICATION PROTOCOL			
	S	Stainless steel case with two outlet ports (F) M							
0	U	Stainless steel case with two outlet ports (F) 1,							
Case	P	Aluminum alloy case with two outlet ports (F) i							
	N	Aluminum alloy case with two outlet ports (F)							
Note: Please pay	attention	to the item of lithium battery (Code: LD)							
Waterproof/explo	sion-proo	f connector				7,500.00			
		Specification	Material	Applicable wire diameter	IP rating				
	1	M20×1.5 waterproof connector, with plug	PVC	6mm~8mm	IP67				
	2	Non-flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67	ja n(n)			
	3	Flameproof adapter (F) 1/2NPT, with plug	316 SS	6mm~8mm	IP67				
	4	Flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67				
	5	Flameproof adapter (F) G1/2, with plug	316 SS	6mm~8mm	IP67				
Note: Flameproo engineer if doubl		ation is applicable to PCEC/ATEX/IECEx standa is required.	ards. Flame _l	proof adapter with	CCC certificate	e. Please contact the			
Diamin.	N	Without LCD display							
Display	L	Display module, -20°C ~70°C							



		Nominal range	Minimu	n range	Lower (LRL)	Upper (URL)			
	2	0.4bar	0.1	bar	-0.4bar	0.4bar			
	3	2.5bar	0.25	bar	-2.5bar	2.5bar			
Low pressure side v	vetted p	arts	l.		1	1			
		Diaphragm	Flange bl	ock	Discharge valve/ plug	Sealings			
	А	316L	31	.6	316	FKM			
	В	316L	31	.6	316	Glass-filled PTFE			
	С	HC-276	31	.6	316	FKM			
	D	HC-276	31	.6	316	Glass-filled PTFE			
		Specification	าร	Drain/ve	ent valve position	Thread	Mounting method		
Low pressure side clamp flange process	2	Female 1/4-	18NPT	Above th	ne side of flange	7/16-20UNF (F)	Horizontal		
connection	3	Female 1/4-	18NPT	Under th	ne side of flange	7/16-20UNF (F)	Horizontal		
	S	Normal temp	perature sil	cone oil(N	ledium temperature	: -40°C ~205°C , diap	hragm ambient (environment: -40°C ~85°C)	
Low pressure side fill oil	D								
III OII	Н	High temper	ature silico	ne oil (Me	dium temperature: 0	°C ~315°C , diaphrag	gm ambient envi	ronment: 0°C ~85°C)	
Clamp flange fastener	6	Bolts, nuts a			-				
	_								
Diaphragm connection position	Н	Differential p	Differential pressure transmitter high pressure side						
Diaphragm seal system code	М	Side mounte	d movable	flange ins	ertion sleeve				
	_								
Flange standard	2	HG/T-20592							
	1	EN1092-1							
	5	HG/T-20615)						
	6	ANSI/ASME	B16.5						
					Applicable standar	rd			
	В		DN50		HG/T-20592, EN10	92-1			
	С		DN80		HG/T-20592, EN10	92-1			
Flange diameter	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				
					Applicable standa	rd	Applicable fla	nge diameter	
	1	PN10/PN16			HG/T-20592, EN10	92-1	DN50, DN80, [DN100	
	2	PN25/PN40	,		HG/T-20592, EN10	92-1	DN50, DN80, [DN100	
	3	PN63			HG/T-20592, EN10	92-1	DN50, DN80		
Pressure class	4	PN100			HG/T-20592, EN10	92-1	DN50, DN80		
		Class 1F0			<u> </u>			linch	
	Α	Class 150	Class 150		HG/T-20615, ANSI/ASME B16.5 2inch, 3inch, 4inch		HIICH		
	A 	Class 300			HG/T-20615, ANSI		2inch, 3inch, 4		



Flands material		217.00					
Flange material	6	316 SS					
	1	RF Raised surface					
Blind sealing surface	A	FM Concave surface					
Surface	B	M Convex surface					
Notes Established	C	RJ Annular connection s					
Note: For details at	oout FM	concave, M convex, RJ a	nnular connection surface, ple	ase consult the engineer			
		46	Applicable flange diameter				
Insertion sleeve diameter	4	46mm					
diameter	6	66mm	DN80, 3inch				
	7	77mm	DN100, 4inch				
	A	50mm					
Insertion sleeve	В	100mm					
length	С		150mm				
	D	200mm					
Insertion sleeve material	6	316 SS					
Wetted parts mater	ial	Please see the material	list of wetted parts for details				
			Blind	Measuring diaphragm			
	6A		316 SS	316L			
	6B		316 SS	Hastelloy C-276			
	6C		316 SS	Tantalum			
	6D		316 SS	Titanium			
_	6E		316 SS	Monel			
High pressure	S	Normal temperature sili	cone oil(Medium temperature : -	40°C ~205°C , diaphragm ambient environment: -40°C ~85°C)			
side	D	Inert oil (Medium tempe	erature: -45°C ~160°C ,diaphrag	gm ambient environment:-40°C ~85°C)			
fill oil	Н	High temperature silico	ne oil (Medium temperature: 0°	C ~315°C , diaphragm ambient environment: 0°C ~85°C)			
Factory calibration range	CAL	Provide Micro Sensor st. Contract specifies: LRL	andard verification report basec - URL, display unit*	on the range, default linear output			
Options		Description (Detailed s	pecifications as following, mul	tiple options or null)			
High vacuum high temperature	/V	High vacuum and high to only up to 0.2%)	emperature process diaphragm	(if this option is selected, the accuracy will be affected and can			
Process	/D1	T-shaped adapter (M) M	20×1.5 and vent tube Φ14mm>	2mm× 30mm, 30, 316 SS			
connection accessories	/D2	Waist-shaped adapter, 2	L/2-14NPT (F), 316SS				
Verification report	/Q1		r verification data according to - URL, display unit and other re				
Note: Standard for	mat follo	ows the Micro Sensor's s	pecifications. Select this option	and provide the template if the customer specifies a format.			
Damping time setting	/ST	Adjustable range 0s~10 Contract specifies: Dan					
	/WH	High alarm current value	e, 20.8mA				
Fault alarm	/WL	Low alarm current value	, 3.8mA, default				
setting	/WS	Other saturation current Contract specifies: Fixe		ge of 3.6mA~3.8mA or 20mA~22mA			
Product certificate	/QE	Standard format follows	the Micro Sensor's specificatio	ns. Select this option and provide the template if the customer			

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Note: The specific	cations r	equired for these options should be specified in the contract.					
period	/Y5	5-year warranty					
Extended warranty	/Y3	3-year warranty					
Delivery service	/XM	Provide customer requested content according to project delivery standards					
anguage	/LE	English nameplate, operation manual, product certificate, etc.					
ligh-accuracy	/HAC	High-accuracy calibration according to the user's specified range Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accura	acy*				
ithium battery	/LD	General requirements for low copper and zinc in the lithium battery industry					
		ertificate, please consult the engineer for others.					
	/CS8	RS, Russian Maritime Register of Shipping					
	/CS7	NK, Nippon Kaiji Kyokai					
	/CS6	KR, Korean Register of Shipping					
JCI tilloates	/CS5	LR, Lloyd's Register of Shipping					
Certificates	/CS4	ABS, American Bureau of Shipping	Street, Street				
	/CS3	BV, Bureau Veritas					
	/CS2	DNV, Det Norske Veritas					
	/CS1	CCS, China Classification Society, TJ23PTB00014	13 66 70				
Note: Please checl	k the fill	oil. Determine whether the inert filling oil is required (code: D).					
Dil-free treatment	/CL1	Degreasing and cleaning treatment of the wetted parts					
Diaphragm sticking	/PFA	The diaphragm is stuck with PFA film, applicable to non-vacuum situations (pressure	2 0)				
Diaphragm spraying	/T3	High pressure side single flange					
old plated	/J4	Double diaphragms on high and low pressure sides(5µ)					
iaphragm with	/J3	Single diaphragm on high pressure side(5µ)					
HART configuration	/H5	HART5 configuration					
lote: The test pre	ssure is t	he same as the flange pressure class					
	QD7	PN100 (class600), Nitrogen (N2) or air, pressure holding for 10 minutes, provide Microreport	Sensor standard leakage test				
report	/QD6	PN63, Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro Sensor standard leakage test report					
_eakage test	/QD5	PN25/PN40 (class300), Nitrogen (N2) or air, pressure holding for 10 minutes, provide test report	Micro Sensor standard leakage				
	/QD4	PN10/PN16 (class150), Nitrogen (N2) or air, pressure holding for 10 minutes, provide test report	Micro Sensor standard leakage				
ntegrated valve nanifold	/VT	Differential pressure transmitter is factory assembled with Micro Sensor valve manifold See attachment for order guide of valve manifold Contract specifies: Complete model of Micro Sensor valve manifold*					
late	/PT	Contract specifies: Identification number, not exceeding 16 characters*					



Body	Remote Fixed Flange Diaphragm
MDM7000-LT	HF — 00000000—00000

		Body		mote Fixed Flang	- Diapinagin	
Items	Code	Description				
MDM7000-LT	_	Monocrystalline Silicon Differential Pressure Tr	ansmitter W	ith Remote Diaphr	ragm Seal (Remo	te Fixed Flange)
Application of ha	azardous a	rea				
	1	China, Flameproof certificate, No.CE23.6650 Ex db IIC T6 Gb, GB/T3836.1-2021, GB/T3836	PCEC			
	2	China, Intrinsically safe certificate, No.CE23.76 Ex ia IIC T4 Ga, GB/T3836.1-2021, GB/T3836				
	3	China, Dust explosion-proof certificate, GYB24 Ex tb III C T85°C Db, GB/T3836.1-2021, GB/T	Ex			
	4	China, Flameproof certificate, Intrinsically safe	certificate			NEPSI
	A	CSA, Flameproof certificate				
	В	CSA, Intrinsically safe certificate				(SP®
	С	CSA, Flameproof certificate, Intrinsically safe of	ertificate			c us
	E	ATEX, Flameproof certificate				
	F	ATEX, Intrinsically safe certificate				(Ex)
	G	ATEX, Flameproof certificate, Intrinsically safe	certificate			
	J	IECEx, Flameproof certificate				
	K	IECEx, Intrinsically safe certificate				IEC IECEX
	L	IECEx, Flameproof certificate, Intrinsically safe	certificate			
	0	Non-hazardous area				
	Т	Other certificate				1
Output signal	Н	4mA~20mA DC, HART				HART COMMUNICATION PROTOCO
	S	Stainless steel case with two outlet ports (F) M				
2	U	Stainless steel case with two outlet ports (F) 1,				
Case	Р	Aluminum alloy case with two outlet ports (F) i				
	N	Aluminum alloy case with two outlet ports (F)				
Note: Please pay	, attention	to the item of lithium battery (Code: LD)				
Waterproof/explo	osion-proo	f connector				(CHIEFE
	·	Specification	Material	Applicable wire diameter	IP rating	
	1	M20×1.5 waterproof connector, with plug	PVC	6mm~8mm	IP67	
	2	Non-flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67	ja njihi
	3	Flameproof adapter (F) 1/2NPT, with plug	316 SS	6mm~8mm	IP67	
	4	Flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67	
	5	Flameproof adapter (F) G1/2, with plug	316 SS	6mm~8mm	IP67	
Note: Flameprod engineer if doub		ation is applicable to PCEC/ATEX/IECEx standa is required.	ards. Flame	proof adapter with	n CCC certificate	. Please contact the
	N	Without LCD display				
Display	L	Display module, -20°C ~70°C				



	ge	Nominal	Minimu	m range	Lower (LRL)	Upper (URL)		
	2	range 0.4bar	0.1	bar	-0.4bar	0.4bar		
	3	2.5bar		bar 5bar	-2.5bar	2.5bar		
Low pressure side v			0.2		2.000.			
	,	Diaphragm	Flange bl	lock	Discharge valve/	Sealings		
	A	316L	31	16	316	FKM		
	В	316L	31	16	316	Glass-filled PTFE		
	С	HC-276	31	16	316	FKM		
	D	HC-276	31	16	316	Glass-filled PTFE		
		Specification	าร	Drain/ve	ent valve position	Thread	Mounting method	
Low pressure side clamp flange process	2	Female 1/4-	18NPT	Above th	ne side of flange	7/16-20UNF (F)	Horizontal	
connection	3	Female 1/4-	18NPT	Under th	ne side of flange	7/16-20UNF (F)	Horizontal	
	S	Normal temp	perature sil	icone oil(N	 1edium temperature :	-40°C ~205°C , diap	hragm ambient (l environment: -40°C ~85°C)
Low pressure side	D		-		 45°C ~160°C ,diaphra			
fill oil	Н							ronment: 0°C ~85°C)
Clamp flange fastener	6	Bolts, nuts a			·	7 1 0		·
	_							
Diaphragm connection position	Н	Differential p	oressure tra	ansmitter	high pressure side			
Diaphragm seal system code	F	Remote fixed	d flange					
	_							
Flange standard	2	HG/T-20592	2					
	1	EN1092-1						
	5	HG/T-20615						
		ANSI/ASME B16.5						
	6	ANSI/ASME						
	6	ANSI/ASME			Applicable standar	d		
	6 B	ANSI/ASME			Applicable standar			
		ANSI/ASME	B16.5			92-1		
Flange diameter	В		B16.5 DN50		HG/T-20592, EN10	92-1 92-1		
Flange diameter	В		DN50 DN80		HG/T-20592, EN10 HG/T-20592, EN10	92-1 92-1 92-1		
Flange diameter	B C D		DN50 DN80 DN100		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10	92-1 92-1 92-1 /ASME B16.5		
Flange diameter	B C D		DN50 DN80 DN100 2inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI	92-1 92-1 92-1 /ASME B16.5		
Flange diameter	B C D 2 3		DN50 DN80 DN100 2inch 3inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI,	92-1 92-1 92-1 /ASME B16.5 /ASME B16.5	Applicable fla	nge diameter
Flange diameter	B C D 2 3		DN50 DN80 DN100 2inch 3inch 4inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI, HG/T-20615, ANSI,	92-1 92-1 92-1 /ASME B16.5 /ASME B16.5 d	Applicable fla	
Flange diameter	B C D 2 3 4		DN50 DN80 DN100 2inch 3inch 4inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI, HG/T-20615, ANSI, Applicable standar	92-1 92-1 92-1 /ASME B16.5 /ASME B16.5 /ASME B16.5 d		DN100
	B C D 2 3 4	PN10/PN16	DN50 DN80 DN100 2inch 3inch 4inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI, HG/T-20615, ANSI, Applicable standar	92-1 92-1 92-1 /ASME B16.5 /ASME B16.5 d 92-1	DN50, DN80, [DN100
	B C D 2 3 4 1 2	PN10/PN16 PN25/PN40	DN50 DN80 DN100 2inch 3inch 4inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI, HG/T-20615, ANSI, Applicable standar HG/T-20592, EN10 HG/T-20592, EN10	92-1 92-1 92-1 /ASME B16.5 /ASME B16.5 d 92-1 92-1	DN50, DN80, DN50, DN50, DN50, DN80, DN50	DN100
	B C D 2 3 4 1 2 3	PN10/PN16 PN25/PN40 PN63	DN50 DN80 DN100 2inch 3inch 4inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI, HG/T-20615, ANSI, Applicable standar HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10	92-1 92-1 92-1 /ASME B16.5 /ASME B16.5 d 92-1 92-1 92-1	DN50, DN80, E DN50, DN80, E DN50, DN80	DN100 DN100
Flange diameter	B C D 2 3 4 1 2 3 4	PN10/PN16 PN25/PN40 PN63 PN100	DN50 DN80 DN100 2inch 3inch 4inch		HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20615, ANSI, HG/T-20615, ANSI, Applicable standar HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10 HG/T-20592, EN10	92-1 92-1 92-1 92-1 /ASME B16.5 /ASME B16.5 d 92-1 92-1 92-1 92-1	DN50, DN80, E DN50, DN80, E DN50, DN80 DN50, DN80	DN100 DN100 inch



Flange material	6	316 SS							
	1	RF Raised surface							
Blind sealing	Α	FM Concave surface							
surface	В	M Convex surface	M Convex surface						
	С	RJ Annular connection surf	ace						
Note: For details ab	out FM	concave, M convex, RJ ann	ular connection surface, ple	ase consult the engineer					
Insertion sleeve material	6	316 SS							
Wetted parts mater	ial	Please see the material list	of wetted parts for details						
		Bl	ind	Measuring diaphragm					
	6A	316	S SS	316L					
	6B	310	S SS	Hastelloy C-276					
	6C	310	S SS	Tantalum					
	6D	310	S SS	Titanium					
	6E	316	S SS	Monel					
Capillary connection location	К	Rear connection							
Capillanytyna	U	3.5mm OD (or 1/8 inch), ar	mored 316L SS, PVC gray sh	eath					
Capillary type	L	3.5mm OD (or 1/8 inch), ar	mored 316L SS, stainless ste	eel bellows sheath					
				Applicable flange diameter					
•			DN50/2inch	DN80/3inch	DN100/4inch				
•	1	1m							
•	2	2m							
	3	3m							
Capillary length	4	4m							
	5	5m							
	6	6m	×						
	7	7m	×						
	8	8m	×						
	9	9m	×						
	A	10m	×						
Note: "×" means ur	navailab	le; the part beyond the lens	th will be selected according	ng to the next level of meters.					
	S			·40°C ~205°C , diaphragm ambie	nt environment: -40°C ~85°C)				
High pressure side		· ·		gm ambient environment:-40°C ~					
fill oil	Н			C ~315°C , diaphragm ambient e	· · ·				
Factory calibration range	CAL	-	lard verification report based	I on the range, default linear outp					
Options		-	cifications as following, mu	tiple options or null)					
High vacuum high temperature	/V	High vacuum and high tem	perature process diaphragm	(if this option is selected, the acc	curacy will be affected and can				
Mounting bracket	/G1	Bent bracket, 316 SS							
Process	/D1	T-shaped adapter (M) M20	×1.5 and vent tube Φ14mm:	× 2mm× 30mm, 30, 316 SS					
connection accessories	/D2	Waist-shaped adapter, 1/2	-14NPT (F), 316SS						
Verification report	/Q1	Provide the Micro Sensor v	erification data according to RL, display unit and other re	user requirements quirements*					
Notes Classical Co	mat fall			n and provide the template if the	customer specifies a format				



/WH /WL /WS /QE	High alarm current value, 20.8mA Low alarm current value, 3.8mA, default Other saturation current values, specified within the range of 3.6mA~3.8mA or 20mA- Contract specifies: Fixed current value*	224					
/WS	Other saturation current values, specified within the range of 3.6mA~3.8mA or 20mA-	004					
,		00 1					
/QE	Contract specifies: Fixed current value*						
	Standard format follows the Micro Sensor's specifications. Select this option and provide the template if the customer specifies a format.						
/PT	Product is shipped with a identification plate Contract specifies: Identification number, not exceeding 16 characters*						
/VT	Differential pressure transmitter is factory assembled with Micro Sensor valve manifold See attachment for order guide of valve manifold Contract specifies: Complete model of Micro Sensor valve manifold*						
/QD4	PN10/PN16 (class150), Nitrogen (N2) or air, pressure holding for 10 minutes, provide test report	Micro Sensor standard leakage					
/QD5	PN25/PN40 (class300), Nitrogen (N2) or air, pressure holding for 10 minutes, provide test report	Micro Sensor standard leakage					
/QD6	PN63, Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro Sensor star	ndard leakage test report					
QD7	PN100 (class600), Nitrogen (N2) or air, pressure holding for 10 minutes, provide Microreport	Sensor standard leakage test					
sure is t	ne same as the flange pressure class						
/H5	HART5 configuration						
/J3	Single diaphragm on high pressure side(5μ)						
/J4	Double diaphragms on high and low pressure sides(5µ)						
/T1	High pressure side single flange						
/PFA	The diaphragm is stuck with PFA film, applicable to non-vacuum situations (pressure	≥ 0)					
/CL1	Degreasing and cleaning treatment of the wetted parts						
the fill	oil. Determine whether the inert filling oil is required (code: D).						
/CS1	CCS. China Classification Society, TJ23PTB00014						
	DNV, Det Norske Veritas						
/CS3	BV, Bureau Veritas						
/CS4	ABS, American Bureau of Shipping	The state of the s					
-	LR, Lloyd's Register of Shipping						
/CS6	, , , , ,						
-							
-							
-	rtificate, please consult the engineer for others.						
/LD	General requirements for low copper and zinc in the lithium battery industry						
	High-accuracy calibration according to the user's specified range	acv*					
/HAC	Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accura						
/HAC	Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accurating the specifies of the sensor's limit), LRL - URL, display unit, accurating the sensor is limit), LRL - URL, display unit, accurating the sensor is limit).	,					
	Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accura						
/LE /XM	Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accurately limit, a	,					
/LE /XM /Y3	Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accurately limit, limit, large year, accurately limit, accurately limit, large year, accurately limit, large year, accurately limit, accurately limit, accurately limit, large year, accurately limit,						
/LE /XM /Y3 /Y5	Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accurate English nameplate, operation manual, product certificate, etc. Provide customer requested content according to project delivery standards						
	/QD4 /QD5 /QD6 QD7 sure is t1 /H5 /J3 /J4 /T1 /PFA /CL1 the fill o /CS2 /CS3 /CS4 /CS5 /CS6 /CS7 /CS8	/VT See attachment for order guide of valve manifold Contract specifies: Complete model of Micro Sensor valve manifold* /QD4 PN10/PN16 (class150), Nitrogen (N2) or air, pressure holding for 10 minutes, provide test report /QD5 PN25/PN40 (class300), Nitrogen (N2) or air, pressure holding for 10 minutes, provide test report /QD6 PN63, Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro Sensor star PN100 (class600), Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro report sure is the same as the flange pressure class /H5 HART5 configuration /J3 Single diaphragm on high pressure side(5μ) /J4 Double diaphragms on high and low pressure sides(5μ) /T1 High pressure side single flange /PFA The diaphragm is stuck with PFA film, applicable to non-vacuum situations (pressure side fill oil. Determine whether the inert filling oil is required (code: D). /CS1 CCS, China Classification Society, TJ23PTB00014 /CS2 DNV, Det Norske Veritas /CS3 BV, Bureau Veritas /CS4 ABS, American Bureau of Shipping /CS5 LR, Lloyd's Register of Shipping /CS6 KR, Korean Register of Shipping /CS7 NK, Nippon Kaiji Kyokai /CS8 RS, Russian Maritime Register of Shipping					



 $\mathsf{MDM7000\text{-}LT} = \square\square\square\square\square - \square - \mathsf{HE} - \square\square\square\square\square\square - \square\square\square\square$ Remote Fixed Flange Insertion Sleeve Diaphragm

Items	Code	Description				
MDM7000-LT	_	Monocrystalline Silicon Differential Pressure Tr Sleeve)	ote Fixed Flange Inserti			
	_					
Application of ha	zardous a	rea				
	1	China, Flameproof certificate, No.CE23.6650 Ex db IIC T6 Gb, GB/T3836.1-2021, GB/T3836	PCEC			
	2	China, Intrinsically safe certificate, No.CE23.76 Ex ia IIC T4 Ga, GB/T3836.1-2021, GB/T3836				
	3	China, Dust explosion-proof certificate, GYB24 Ex tb III C T85°C Db, GB/T3836.1-2021, GB/T	E _X NEPSI			
	4	China, Flameproof certificate, Intrinsically safe	certificate			THE ST
	А	CSA, Flameproof certificate				
	В	CSA, Intrinsically safe certificate				(SP)®
	С	CSA, Flameproof certificate, Intrinsically safe o	ertificate			c
	Е	ATEX, Flameproof certificate				
	F	ATEX, Intrinsically safe certificate				$\langle \mathbf{E_x} \rangle$
	G	ATEX, Flameproof certificate, Intrinsically safe	certificate			
	J	IECEx, Flameproof certificate		150 76		
	K	IECEx, Intrinsically safe certificate				TEC IECE
	L	IECEx, Flameproof certificate, Intrinsically safe	certificate			
	0	Non-hazardous area				
	Т	Other certificate				
Output signal	Н	4mA~20mA DC, HART				COMMUNICATION PROTOC
	S	Stainless steel case with two outlet ports (F) M				
Casa	U	Stainless steel case with two outlet ports (F) 1,				
Case	Р	Aluminum alloy case with two outlet ports (F)				
	N	Aluminum alloy case with two outlet ports (F) 2				
Note: Please pay	attention	to the item of lithium battery (Code: LD)				
Waterproof/explo	sion-proo	f connector				70.7888650
		Specification	Material	Applicable wire diameter	IP rating	
	1	M20×1.5 waterproof connector, with plug	PVC	6mm~8mm	IP67	
	2	Non-flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67	ja njiji
	3	Flameproof adapter (F) 1/2NPT, with plug	316 SS	6mm~8mm	IP67	
	4	Flameproof adapter (F) M20×1.5, with plug	316 SS	6mm~8mm	IP67	والهام من
	5	Flameproof adapter (F) G1/2, with plug	316 SS	6mm~8mm	IP67	
Note: Flameproo engineer if doubl		ation is applicable to PCEC/ATEX/IECEx standa	ards. Flamer	proof adapter with	CCC certificate	e. Please contact the
	N	Without LCD display				
Display	L	Display module, -20°C ~70°C				

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		Nominal Minimum range		Lower (LRL)	Upper (URL)					
		range	0.1bar		,					
	2	0.4bar			-0.4bar	0.4bar				
Low pressure side v	3	2.5bar	0.25b	ar	-2.5bar	2.5bar				
Low pressure side v	verreu p	alts			Discharge					
		Diaphragm	Flange blo	ock	valve/plug	Sealings				
A 316L		316)	316	FKM					
	В	316L	316)	316	Glass-filled PTFE				
	С	HC-276	316)	316	FKM				
	D	HC-276	316)	316	Glass-filled PTFE				
Low pressure side clamp flange process connection		Specifications		Drain/ position	vent valve Thread Mounting method					
	2	I Famaia I //I=I XIVIPI I		Above flange	the side of	7/16-20UNF (F)	Horizontal			
	3			Under flange	the side of	7/16-20UNF (F)	Horizontal			
	S	Normal temp	Normal temperature silicone oil(Medium temperature : -40°C ~205°C , diaphragm ambient environment: -40°C ~85°C)							
Low pressure side fill oil	D	Inert oil (Medium temperature: -45°C ~160°C ,diaphragm ambient environment:-40°C ~85°C)								
	Н	High temperature silicone oil (Medium temperature: 0°C ~315°C , diaphragm ambient environment: 0°C ~85°C)								
Clamp flange fastener	6	Bolts, nuts and other assemblies, 316 SS								
	_									
Diaphragm connection position	Н	Differential pressure transmitter high pressure side								
Diaphragm seal system code	Е	Remote fixed	Remote fixed flange insertion sleeve							
	_									
Flange standard	2	HG/T-20592								
	1	EN1092-1								
	5	HG/T-20615								
	6	ANSI/ASME B16.5								
					Applicable standard					
	В	DN50			HG/T-20592, EN1092-1					
	С	DN80			HG/T-20592, EN1092-1					
Flange diameter	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					
					Applicable standard		Applicable flange diameter			
	1	PN10/PN16			HG/T-20592, E	EN1092-1	DN50, DN80, DN100			
	2	PN25/PN40			HG/T-20592, E	EN1092-1	DN50, DN80, [DN100		
	3	PN63			HG/T-20592, E		DN50, DN80			
Pressure class	4	PN100			HG/T-20592, E		DN50, DN80			
	Α	Class 150				, ANSI/ASME B16.5 2inch, 3inch, 4inch				
	В	Class 300				ANSI/ASME B16.5 2inch, 3inch, 4inch				
	C					ANSI/ASME B16.5 2inch, 3inch				
Note: The maximur					1.0, / 20010, /					



Flange material	6	316 SS								
	1	RF Raised su	rface							
Blind sealing surface	А	FM Concave surface								
	В	M Convex surface								
	С	RJ Annular connection surface								
Note: For details a	about FM	l concave, M co	onvex, RJ annular	connection sur	face, please consult t	ne engineer				
		Applicable flange diameter								
Insertion sleeve diameter	4	46mm	DN50	, 2inch						
	6	66mm DN80, 3inch								
	7	77mm DN100, 4inch								
	А	50mm								
Insertion sleeve	В	100mm								
length	С	150mm								
	D	200mm								
Insertion sleeve material	6	316 SS	316 SS							
Wetted parts mate	erial	Please see th	ne material list of	wetted parts for	details					
			Blind		Measuring diaphragm					
	6A		316 SS		316L					
	6B		316 SS		Hastelloy C-276					
	6C	316 SS 316 SS 316 SS			Tantalum					
	6D				Titanium					
	6E				Monel					
Capillary connection location	К	Rear connect	Rear connection							
Capillary type	U	3.5mm OD (or 1/8 inch), armored 316L SS, PVC gray sheath								
	L	3.5mm OD (or 1/8 inch), armored 316L SS, stainless steel bellows sheath								
					Adaptable measuring diaphragm					
		Insertion sleeve diameter		6A-316L	6B-HastelloyC-276	6C-Tantalum	6D-Titanium	6E-Monel		
Capillary length	1	1m	S-46mm M-66mm L-77mm							
	2	2m	S-46mm M-66mm L-77mm							
	3	3m	S-46mm M-66mm L-77mm							
	4	4m	S-46mm			×	×	×		
			M-66mm L-77mm			-				
	5	5m	S-47mm			×	×	×		
			M-66mm L-77mm							
	6	6m M-66mm L-77mm								
	7	7m M-66mm L-77mm								
	8	8m	M-66mm L-77mm							



	9	9m	M-66mm L-77mm							
	А	10m	M-66mm L-77mm							
High pressure	S	Normal temperature silicone oil(Medium temperature : -40°C ~205°C , diaphragm ambient environment: -40°C ~85°C)								
side	D	Inert oil (Med	Inert oil (Medium temperature: -45°C ~160°C ,diaphragm ambient environment:-40°C ~85°C)							
fill oil	Н	High temperature silicone oil (Medium temperature: 0°C ~315°C , diaphragm ambient environment: 0°C ~85°C)								
Factory calibration range	CAL	Provide Micro Sensor standard verification report based on the range, default linear output Contract specifies: LRL - URL, display unit*								
Options		Description	(Detailed specificat	ions as following, multiple options or null)						
High vacuum high temperature	/V		High vacuum and high temperature process diaphragm (if this option is selected, the accuracy will be affected and can only up to 0.2%)							
Mounting bracket	/G1	Bent bracket	Bent bracket, 316 SS							
Process	/D1	T-shaped adapter (M) M20×1.5 and vent tube Φ14mm× 2mm× 30mm, 30, 316 SS								
connection accessories	/D2	Waist-shaped adapter, 1/2-14NPT (F), 316SS								
Verification report	/Q1	Provide the Micro Sensor verification data according to user requirements Contract specifies: LRL - URL, display unit and other requirements*								
Note: Standard for	mat foll	ows the Micro	Sensor's specificat	ions. Select this option and provide the templ	ate if the customer specifies a format.					
Damping time setting	/ST	Adjustable range 0s~100s, default 0s Contract specifies: Damping time*								
	/WH	High alarm current value, 20.8mA								
Fault alarm	/WL	Low alarm current value, 3.8mA, default								
setting	/WS		Other saturation current values, specified within the range of 3.6mA~3.8mA or 20mA~22mA Contract specifies: Fixed current value*							
Product certificate	/QE	Standard format follows the Micro Sensor's specifications. Select this option and provide the template if the customer specifies a format.								
Identification plate	/PT	Product is shipped with a identification plate Contract specifies: Identification number, not exceeding 16 characters*								
Integrated valve manifold	/VT	Differential pressure transmitter is factory assembled with Micro Sensor valve manifold See attachment for order guide of valve manifold Contract specifies: Complete model of Micro Sensor valve manifold*								
	/QD4	PN10/PN16 (class150), Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro Sensor standard leakage test report								
Leakage test report	/QD5	PN25/PN40 (class300), Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro Sensor standard leakage test report								
	/QD6	PN63, Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro Sensor standard leakage test report								
	QD7	PN100 (class600), Nitrogen (N2) or air, pressure holding for 10 minutes, provide Micro Sensor standard leakage test report								
Note: The test pres	sure is t	he same as th	e flange pressure c	lass						
HART configuration	/H5	HART5 config	guration							
Diaphragm with	/J3	Single diaphragm on high pressure side(5μ)								
gold plated	/J4	Double diaph	ragms on high and l	ow pressure sides(5μ)						
Diaphragm spraying	/T3	High pressure side single insertion sleeve								
Oil-free treatment	ee treatment /CL1 Degreasing and cleaning treatment of the wetted parts									
Note: Please check	the fill	oil. Determine	whether the inert	illing oil is required (code: D).						

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MDM7000-LT

Smart Pressure Transmitter



	/CS1	CCS, China Classification Society, TJ23PTB00014	(a) (b)						
Certificates	/CS2	DNV, Det Norske Veritas							
	/CS3	BV, Bureau Veritas							
	/CS4	ABS, American Bureau of Shipping	Stricks!						
	/CS5	LR, Lloyd's Register of Shipping							
	/CS6	KR, Korean Register of Shipping							
	/CS7	NK, Nippon Kaiji Kyokai							
	/CS8	RS, Russian Maritime Register of Shipping							
Note: Except for th	Note: Except for the CCS certificate, please consult the engineer for others.								
Lithium battery	/LD	General requirements for low copper and zinc in the lithium battery industry							
High-accuracy	/HAC	High-accuracy calibration according to the user's specified range Contract specifies: Range of use (within sensor's limit), LRL - URL, display unit, accuracy*							
Language	/LE	English nameplate, operation manual, product certificate, etc.							
Delivery service	/XM	Provide customer requested content according to project delivery standards							
Extended /Y3		3-year warranty							
warranty period	/Y5	5-year warranty							
*Note: The specifications required for these options should be specified in the contract.									
Example: MDM7000-LT-1HP1L-2A1S1-HE-2B1614A6AKU3S/G1- [CAL: 0-0.4bar]									

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