

MPM4760 Intelligent Digital Display Pressure Transmitter

Features

- Precise digital temperature compensation, wider compensation range;
- Optional data display (max. and min. measure value, percentage and output current display) ;
- Special wider temperature LCD indicator (-30 ~80) ;
- 2-wire 4~20mADC current loop output;
- RS485 communication protocol;
- No power calibration, range shrinking, factory value restoring available;
- Compact size, max.diameter only 76mm;
- Vertical or horizontal installation, indicator rounded clockwise or unclockwise 90°,all kinds of interfaces available;
- Battery power supply available;



Introduction

MPM4760 Intelligent digital display transmitter is the highly accurate and stable intelligent transmitter, which generally used for actual pressure measure and display. The product uses wider temperature display LCD indicator, high stable pressure sensor, precise digital temperature compensation and non-linearity correction technics, the whole product is precise and reliable. With compact size and excellent performance, the product can be used for precise pressure measure and display for power station, chemi-industry, city water supply and drainage, etc.

Specifications

Basic range (MPa)	0.1	0.2	0.35	0.7	1.0	2.0	3.5	7.0	10	20	35	60	100
Overpressure (MPa)	0.15	0.3	0.5	1.0	1.5	3.0	5.0	10	15	30	50	90	110

Note: the min.available shrinking pressure range is 1/5 of basic pressure range;

Vacuum pressure measure is available;

For the other pressure range between min.range and max.range, but not included in the above table, we enlarge the above basic pressure to produce (overpressure unavailable)

<http://www.microsensor.cn>

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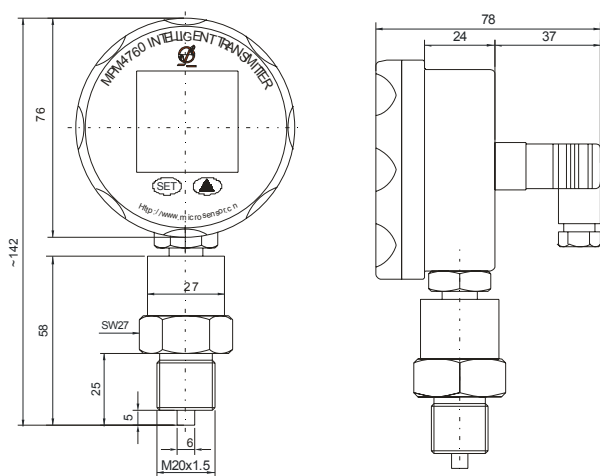
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Total accuracy	$\pm 0.1\%FS(\text{min.})$	$\pm 0.25\%FS(\text{typ.})$	$\pm 0.5\%FS(\text{max.})$
Basic error	$\pm 0.075\%FS(\text{min.})$	$\pm 0.15\%FS(\text{typ.})$	$\pm 0.25\%FS(\text{max.})$
Stability	$\pm 0.25\%FS/\text{year}$		
Compensation temp.	(-10~80)		
Operation/storage temp.	(-30~80)		
Power supply	(8~28)VDC		
Output signal	(4~20)mADC		
	RS485 interface		
Load	(4~20)mADC output, (U-8V)/0.02A(Ω)		
	RS485, can connect 99 transmitters		
Electric connection	GDM307 4-pin plug		
Insulation	100M Ω /50V		
Shock	20g , (20~5000)Hz		
Impact	20g , 11ms		
Protection	IP65		
Media compatibility	Diaphragm: stainless steel 316L		
	Pressure interface: stainless steel		
	Housing: stainless steel 1Cr18Ni9Ti		
	O-ring: Viton		
Weight	About 420g		

Total accuracy: including non-linearity, hysteresis, repeatability and thermal error; Room temperature rated value (20 ± 2) ; including non-linearity, hysteresis and repeatability; For special temperature requirement, please feel free to contact our company.

Outline Construction

(unit: mm)



Electric Connection

Output signal	Function	Plug
4~20mA 2-wire	+V	1
	4~20mADC output	2
Communication interface	RS485A	3
	RS485B	\perp

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Assistant Software

MS Setonline Software

RS232/485 conversion module is used to communicate with RS485 interface, display actual pressure, set new zero, analog output and transmitter address.



Note: "MS Setonline" software could be downloaded from our website www.microsensor.cn

Order Guide

MPM4760	Intelligent Digital Displaying Pressure Transmitter					
	Range	Pressure range: kPa or MPa				
	[0~X]kPa or MPa	-0.1...0~0.01...100MPa, X=actual measure range				
		Code	Output signal			
		E	4~20mADC			
		R ₄	RS485 communication interface			
			Construction material			
		Code	Diaphragm	Pressure port	Housing	
		22	SS 316L	SS	SS	
			Code	Others		
			C ₁	M20×1.5 male, face type seal		
			C ₃	G1/2 male, (P type)		
			C ₄	G1/4 female		
			C ₅	M20×1.5 male, waterline seal		
			P	Flush diaphragm, G1/2 male		
			G	Gauge		
			S	Sealed gauge		
			A	Absolute		
MPM4760	[0~100]kPa	ER ₄	22	C ₁ G	the whole spec	

Order Note

1. If the user needs battery power supply, but no need for 4~20mADC output, please note in the order;
2. flush diaphragm transmitter's pressure range: 0~70kPa...35MPa
3. If the user has special requirement, please feel free to contact our company.

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