





MPM4706

FEATURES

- Extremely low consumption and available for auto stand-by mode
- Integrated temperature measurement
- Digital compensation and non-linearity correction
- RS485 communication interface
- Suitable for networking
- Stainless steel housing, compact and light
- Customizable



MPM4706 digital level transmitter is a highly precise and stable digital transmitter for the level measurement. This product utilizes the highly reliable piezoresistive OEM pressure sensing element and the high precision digital processing circuit, coupled with a dedicated algorithm, the transmitter is capable of high precision measurement.

The product supports the measurement of both level and temperature and communicate via an RS485 interface. The transmitter consumes very low power and automatically enters standby mode when not communicating, and the power consumption at standby mode is as low as 10uA.

SPECIFICATIONS

Measured range	0~3.5200 mH ₂ 0			
Over pressure	1.5 × FS			
Total accuracy ¹	±0.25%FS (-10°C ~ 70°C)			
Temperature accuracy ²	±0.5°C (-20°C ~ 80°C) ±0.75°C (-30°C ~ -20°C)			
Power supply	3.6V ~ 28V DC			
Output signal	RS485 (ModBus RTU or ASCII)			
Compensation temperature	-10°C ~ 70°C			
Operation temperature	-10°C ~ 70°C			
Storage temperature	-20°C ~ 85°C			
Long-term stability	±0.25%FS/year			
Load	RS485 terminal can cascade up to 99 transmitters			
Insulation resistance	100ΜΩ@500V			
Vibration	20g, 20Hz ~ 2000Hz			
Shock	20g, 11ms			
Weight	~210g			
Protection class	IP68			
	Diaphragm: Stainless steel 316L			
Wetted material	Housing: Stainless steel 304			
	O-ring seal: Viton			

¹ Total accuracy: including non-linearity, hysteresis, repeatability and temperature error.

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² Temperature accuracy: measured temperature is ambient temperature.



ELECTRICAL CONNECTION

Transmitter connection diagram see the table below.

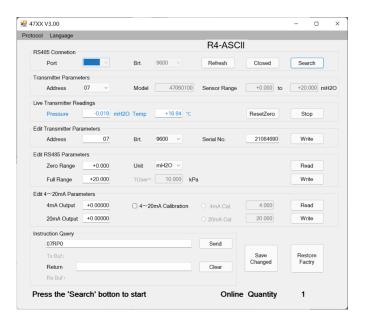
Electrical definition	Wire Color		
+V	Red		
-V	Black		
RS485A	Yellow(Green)		
RS485B	White		

ASSISTANCE SOFTWARE

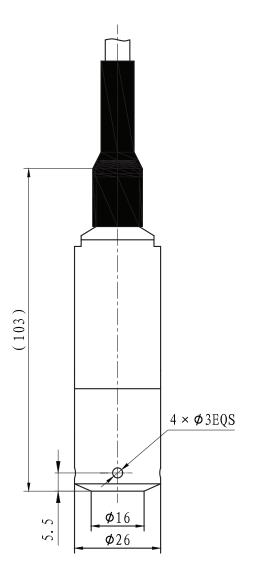
RS485 Communication Software

MS Setonline 3.00 communication software can be used to read the basic information (including level range and temperature compensation range, version, etc.) of the transmitter with RS485 interface, display the actual level value, set the new zero point, configure the analog output, and set the instrument address with the assistance of a RS485 conversion module.

Note: The "MS Setonline 3.00" software can be downloaded from Micro Sensor website.



OUTLINE CONSTRUCTION (UNIT:mm)



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ORDER GUIDE

MPM4706		Digital Level Transmitter							
	Range	Measure Range	Measure Range 0m~3.5m200m H ₂ 0						
	[0m ~ XmH ₂ 0]L	X=actual range,	L= cable length, suggested L-X=(1 ~ 2)m						
		Code	de Output Signal						
		R ₄	RS485 Communication Interface, ASCII protocol						
		R ₈	RS485 Communication Interface, MODBUS RTU protocol						
			0.4.	Construction material		ial			
			Code	Diaphragm	Pressure port	Housing			
			22	S.S.316L	S.S.	s.s.			
			24	S.S.316L	S.S.316L	S.S.316L			
				Code	Others				
				C ₁	M20×1.5 Male, face seal				
				C ₅	M20×1.5 Male, waterline so	eal			
			Y _b	Aluminum connection box without display					
Y _c MS200 wa		MS200 water-proof connec	O water-proof connection box						
				Y _d	PD140 lightening-proof pro	otection			
				Y _e	Connection box (no display)			
				F ₁	Fixed Flange				
MPM4706	MPM4706 [0m ~ 10mH ₂ 0]12 R ₄ 22 Y _c Complete part number								

Notes:

- The product is supplied with the polyethylene cable if not specified. 1.
- For special requirements, please contact us and note on the purchase order.