MPM4780W Intelligent Level Transmitter



Features

- RS485 communication interface, Standard MODBUS-RTU Protocol output
- Netting available
- Short circuit protection and reverse polarity protection
- Full stainless steel construction, compact size, light weight
- Good output consistency and replaceability
- Available for calibration and parameter change on site through matched software of computer

Introduction

MPM4780W Intelligent Level Transmitter is a highly integrated measurement product with high stability. It uses intelligent processing circuit, the most advanced design and manufacturer technology of piezoresistive pressure transmitter, and is available for pressure signal and temperature signal output that in accordance with standard MODBUS-RTU protocol. Featuring integrated design, standard digital output, great compatibility, small size, high accuracy, light weight and wide pressure range, it can be applied in many fields which involve high accuracy required measurement of fluids. It also can take replace of level transmitters in the form of MODBUS-RTU protocol output by providing level type measurement for users.

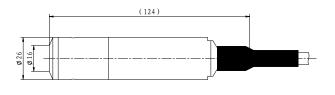
Specification

Range	0m~3.5m200mH ₂ O				
Over pressure	1.5 times FS / 1100bar (min. value is valid)				
Pressure type	Gauge/ Absolute/ Sealed gauge				
Power Supply	9V~28V DC				
Output signal	RS485 Interface(MODBUS-RTU protocol)				
Accuracy	±0.5%FS				
Thermal drift	±0.04%FS/℃ (≤1bar); ±0.03%FS/℃ (>1bar)				
Measurement Error	±2°C (For "temperature & pressure type" only)				
Application Temp.	-10°C ~70°C				
Storage Temp.	-20°C ~85°C				
Insulation	100V, 100M				
Stability	±0.3%FS/YEAR				
Shock	20g, 25Hz~2000Hz				
Impact	100g, 11ms				
Protection	IP68				
Weight	~250g;				
Housing	Stainless steel 304				
Diaphragm	Stainless steel 316L				
O- Ring	Viton				

Notes:

- 1. Shrinking range is 1/5 basic range, no range extension;
- 2. For special temperature requirement, please feel free to contact our company.

Outline Construction (Unit: mm)



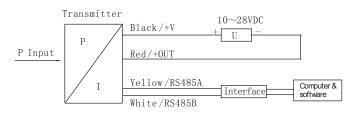
Communication Connection

Level

Function	Inner plug	Outer Electrical Connection		
	pin color	Wire Color		
+V	1 (Black)	Black		
-V	2 (Red)	Red		
RS485B	4 (White)	White		
RS485A	5 (Yellow)	Yellow		

Transmitter connecting the outside by plug or cable:

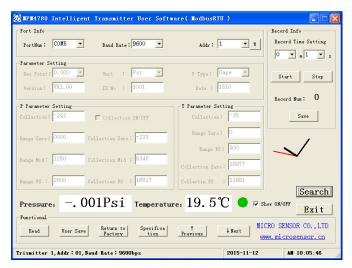
Electrical connection for transmitter with RS485 interface(MODBUS Protocol):



Assistant Software

MPM4780 Transmitter Software

RS232/485 Conversion module is used to communicate with RS485 interface transmitter, available for real time pressure/temperature display and calibration on site. Some parameters calibration was done before being transported at factory, so users do not have to modify them. When mistaken operations happen, users can push "Back to Factory Setting" to turn it to factory setting. Besides, the software keeps Data Record section, which allow users to set the record interval freely for recording and saving data, and the data can be saved in the forms of "*.Excel".



Note: MPM4780 Transmitter Software, can be downloaded on our website: www.microsensor.cn

Order Guide

MPN	14780W	Intelligent Level Transmitter									
		Range Measure Range: 0m~3.5m200m H ₂ O									
		[0~Xn	nH₂O]L	X=actual range, L= cable length, suggested L-X=(1~2)m							
				Code Output Signal							
				R ₈	RS485 Communication Interface, MODBUS protocol						
				Construction Material				al			
				Code	Diaphragm		Pressure Port	Housing			
					22	S.S.316L S.S.316L		S.S.	S.S.		
					24			S.S.316L	S.S.316L		
						Code	Others				
						C ₁	M20×1.5 male, end face sealM20×1.5 male, waterline sealMS200 water-proof connection boxPD140 lightening-proof protectionFixed Flange				
						C ₅					
						Y _c					
						Y _d					
						F ₁					
MPM	MPM4780W [0~10mH ₂ O]12				22	\mathbf{Y}_{C}	The W	hole Spec.			

Notes

1. There is no temperature measurement function for typical transmitter, if temperature measurement is needed, please note in order;

2.Please note in the order if the user needs zero pressure as negative pressure;

3.Please note the type of junction box if wiring box needed; If the user has no special requirement for cable, we provide default PVC cable;

4.If the user has special requirement, please feel free to contact our company.