



bar **MPM486**

#### FEATURES

- 4~20mA current output together with HART® (2-wire);
- digital compensation and linearity correction;
- -10°C ~80°C digital wider temperature compensation;
- Local and long-distance zero, range adjustment;
- Local key operation, easy configuration;
- Protection IP65.



**MICROSENSOR**

AUTHORIZED DISTRIBUTOR

MPM486 HART® intelligent pressure transmitter is an intelligent pressure measurement product with high accuracy, high stability, multi-parameter and four and a half digits LCD display. It conforms to HART® protocol. The users could manage, adjust or monitor the process variables by HART® communicator, and it could also be configured by key-press at local working place.

The product uses the most advanced digital technique, temperature compensation, linearity correction and reliable ex-proof construction for production. The whole product has high accuracy, wider temperature compensation range and standard signal output to measure flow pressure precisely.

MPM486 transmitter is 2-wire instead of 4~20mADC analog output, can be communicated with Micro Sensor ROSEMOUNT 275 hand-communicator and MS-H375 hand-communicator together. Electromagnetic radiation conforms to IEC801 standard.

#### SPECIFICATIONS

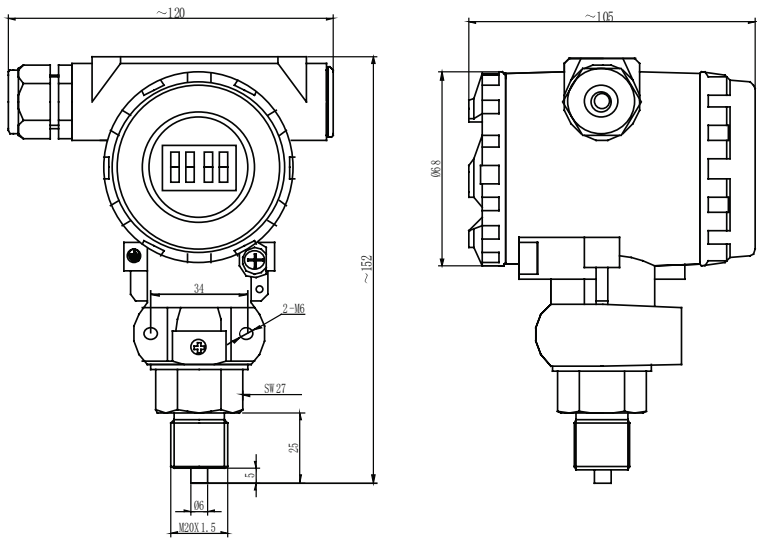
Code	02	03	07	08	09	10	12	13	14	15	17	18	19	20
Unit	bar													
Pressure	0-0.2 ~ 0-0.7	0-0.3 ~ 0-1	0-0.6 ~ 0-2	0-1 ~ 0-3.5	0-2 ~ 0-7	0-3 ~ 0-10	0-6 ~ 0-20	0-10 ~ 0-35	0-20 ~ 0-70	0-10 ~ 0-100	0-40 ~ 0-200	0-80 ~ 0-350	0-160 ~ 0-700	0-200 ~ 0-1000
Upper limit	0.7	1	2	3.5	7	10	20	35	70	100	200	350	700	1000
Over pressure	1	1.5	3	5	10	15	30	50	100	150	300	520	1000	1100

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

	Specification	Unit
Accuracy	±0.1(typ.) ±0.25(max.)	%FS
Zero Thermal error	≤±0.25(in the whole operation temp.range)	%FS
FS Thermal error	≤±0.25(in the whole operation temp.range)	%FS
Stability	≤±0.25	%FS/year
Compensation temp.	-10~80	°C
Operation temp.	-30~80	°C
Storage temp.	-40~85	°C
Power supply	13~36	VDC
Digital output	4~20mAADC output+ HART®	
Display	LCD indicator, 2 or 3 keys to calibrate	
Damp	0~32	s
Load	(U-12V)/0.02A	Ω
Insulation	100MΩ@50V	
Shock	20g, 20~5000Hz	
Impact	20g,11ms	
Diaphragm	Stainless steel 316L/tantalum	
Pressure port	Stainless steel 304/hastelloy	
O-ring	Viton	
Weight	~1.7kg	

The min. available shrinked pressure range is 1/5 of basic pressure range.

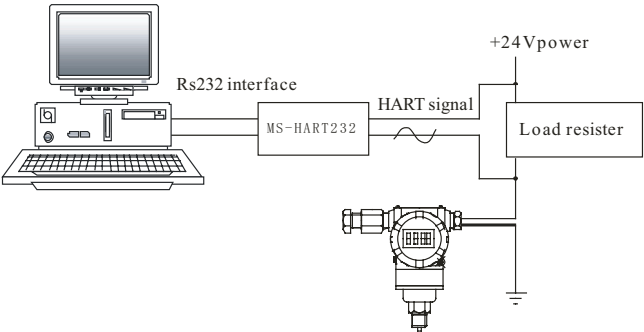
■ OUTLINE CONSTRUCTION (UNIT: mm)



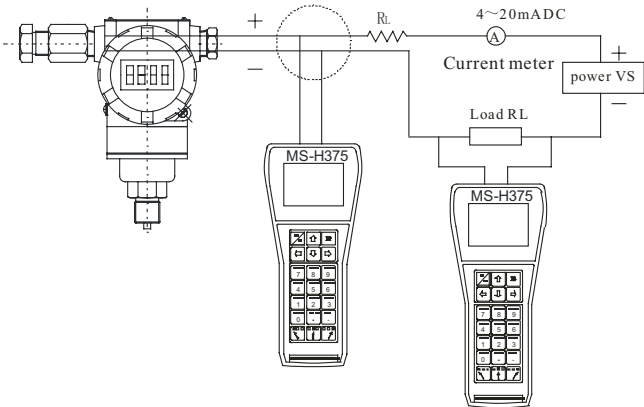
ELECTRICAL CONNECTION

ASSISTANT SOFTWARE

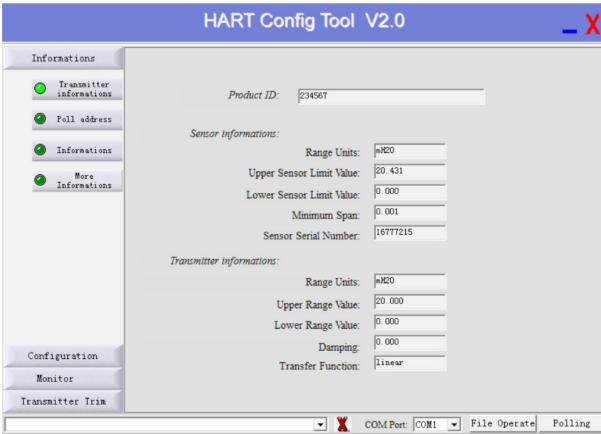
Transmitter Connecting with Computer



Transmitter Connecting with Hand-Communicator



The user could calibrate and adjust transmitter with HART® protocol through MS-HART232 transforming module.



ORDER GUIDE

MPM486		HART® Intelligent Pressure Transmitter						
	[0~X] kPa or MPa	Code	Pressure range bar					
		02	0~0.2...0.7		13	0~10...35		
		03	0~0.3...1		14	0~20...70		
		07	0~0.6...2		15	0~30...100		
		08	0~1...3.5		17	0~40...200		
		09	0~2...7		18	0~80...350		
		10	0~3...10		19	0~160...700		
		12	0~6...20		20	0~200...1000		
			Code	Output Signal				
			E	4~20mADC + HART® communication protocol (2-wire)				
				Code	Construction material			
					Diaphragm	Pressure Port	Housing	
				22	SS 316L	SS	Aluminum-alloy	
				25	Tantalum	SS	Aluminum-alloy	
				35	Tantalum	Hastelloy C	Aluminum-alloy	
					Code	Others		
					C1	M20×1.5 male, face type seal		
					C3	G1/2 male		
					C5	M20×1.5 male, waterline seal		
					P	Flush diaphragm, G1/2 male		
					G	Gauge		
					S	Sealed gauge		
			A	Absolute				
MPM486	[0~ 2]bar	E	22	C1G	the whole spec.			

Notes:

- 1. Flush diaphragm pressure range: 0~0.7bar...350bar;
- 2. If the user has special requirement, please feel free to contact our company.