Micro Pressure Transmitter MPM430



Applications

- · Petrochemical industry
- Power plant
- Mine
- Urban water supply
- Hydro exploration

Features

- Pressure port has general, non-cavity two structures available, the contact surface between the pressure-sensing diaphragm and the medium is large
- The pressure-sensitive diaphragm material is ceramic with good corrosion resistance
- Overpressure can reach dozens of times, which can resist strong pressure shocks
- Intrinsic safety type, Ex ia IIC T6 Ga

Introduction

The MPM430 micro pressure transmitter is a pressure measurement product specially developed for applications in the field of micro pressure measurement. Ceramic sensor and integrated stainless steel fully sealed structure, small size, strong overload resistance, high stability, good corrosion resistance and reliable performance.

Specification

Range			
Overpressure	see Accuracy on Page 2		
Accuracy			
Pressure Type	gauge (with negative pressure measurement) absolute		
Long-term Stability	±0.5%FS/year		
Thormal Drift	≤±0.15%FS/10°C (-20°C ~ 80°C)		
memai Dint	≤±0.2%FS/10°C(-30°C~-20°C)		
	-30°C ~ 80°C (plug connector type)		
Application	-20°C ~ 70°C (cable type, cable material: PE, PVC)		
Temperature	-20°C ~ 80°C (cable type, cable material: PUR)		
	-20°C ~ 60°C (intrinsic safety type)		
Storage	-40°C ~ 120°C		
Temperature	-20°C ~ 85°C (cable type)		
Housing Protection	IP65		
Weight	≤150g		



Accuracy

Range Code	Measurement Range	Overpressure	Accuracy
OD	-25mbar5mbar ~ 5mbar50mbar	1.8bar	±1%FS
OC	-100mbar10mbar ~ 10mbar100mbar	2bar	±1%FS
	Austral 20mbar 200mbar	Ch an	±1%FS
OB	umbar ~ 20mbar200mbar	obar	±0.5%FS

Test Standard: GB/T 17614.1-2015/IEC60770-1:2010

Output Signals

Output Signal	Power Supply	Output Format	Load Resistance
4mA~20mA DC(E)	12V~28V DC (The intrinsic safety product is powered by a safety barrier)	2-wire	≤(U-12)/0.02(Ω)

Outline Dimensions

I General Type II Non-cavity Connector Type III Non-cavity Cable Type 50 50 **ø**19 ø19 $\sim\!120$ **Ø**43 ~ 92 ~ 74 **Ø**42 **Ø**43 ~ 87 SW45 ~ 57 ~ 49 SW45 SW27 12 12 M42X1.5 M42X1.5 12 M20X1.5

unit: mm

Electrical Connection



Materials

Wetted Parts Isolated Diaphragm: 96% alumina ceramics Pressure Port: SS 304 Non-wetted Parts Housing: SS 304/SS 316L Cable: PE/PUR/PVC

Ordering Guide

MPM	430) Micro Pressure Transmitter								
		Danga		Coc	Code M		Aeasurement Range			
			0D 0C		-25mbar5mbar ~ 5mbar50mbar			r ~ 5mbar…50mbar		
		Kange			-10	-100mbar10mb		bar ~ 10mbar…100mbar		
				0B		0mbar ~ 20mbar200mbar				
		[0 ~ X]mbar	X: act	ual n	neas	asured range, L means cable length when choosing III type				
				Code	Out	tput	Signal			
				E	4m	A~2	0mA D	C		
					Co	de	de Function Selection [®]			
					I	I	genera	al type(p	pressure port M20×1.5 male)	
					I	I	non-ca	vity cor	nnector type(pressure port M42×1.5 male)	
					Ш	П	non-ca	vity cat	ble type(pressure port M42×1.5 male)	
							Code	Certific	cation Requirement	
							null	no cert	ification requirement	
							i	intrinsi	c safety Ex ia IIC T6 Ga	
								Code	Pressure Type	
								G	gauge	
								А	absolute	
								Ν	with negative pressure measurement	
MPM	430	[-2~10]]mbar	E	1		i	GN	Complete Type Specification	

Ordering Notes

- 1. " ① " in ordering guide means accuracy, see "Accuracy" on page 2 for details.
- 2. " 2 " in ordering guide means electrical connection requirement:

when choosing type I or II , please specify us if cable is needed.

- 3. The cable length is 1.5m by default, cable material is available for 3 types: PE cable is provided as default; if other material is needed, please specify in the order.
- 4. When ordering the transmitter with M6 or M7 indicator, power supply should ≥17V DC.
- 5. Environmental temperature should be -20°C ~ 70°C when ordering the transmitter with M6 indicator, environmental temperature should be -10°C ~ 60°C when ordering the transmitter with M7 indicator, indicator setting can refer to our indicator lectotype, which can be found on our company's website.
- 6. If metrology verification certificate is needed or there are other requirements, please contact us and specify it in the order.