

MPM4530 High-temperature Pressure Transmitter

Specifications



Features

- Full welded sensor with pressure port; protection IP65;
- Stainless steel contacting with media, good corrosive resistance;
- High, low and common temperature measurement, good long-term stability;
- Good anti-impact, anti-shock ability;
- Wider operation temperature range

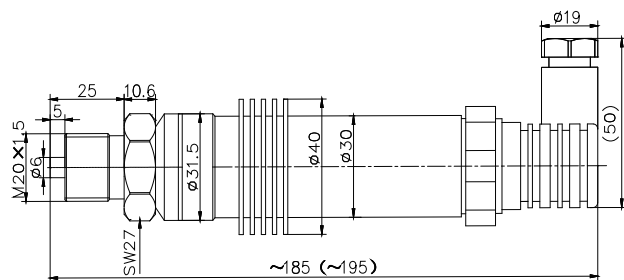
Introduction

MPM4530 transmitter uses high temperature pressure sensor as sensing element. The media is transferred onto sensor through heating cooling parts, and high accuracy amplified circuit board is in stainless steel housing, transmitting sensor signal into standard output signal. The whole product is produced through components making, semi-finished product and all-finished product strict testing and aging, having stable and reliable performance. The transmitter is widely used for high and low measurement and control of food, medicine, power station, engineering, automobile, ship manufacture, petroleum, metallurgy, steam and heat exchanging, aviation, spaceflight, and scientific research and laboratory instrument, etc.

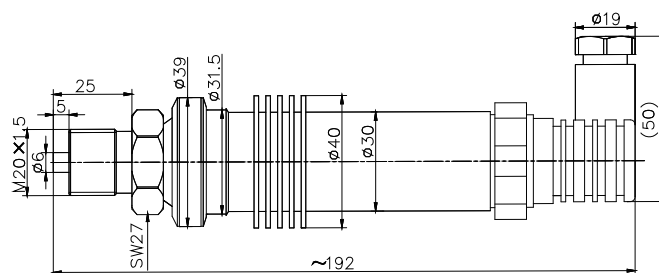
Pressure range	-0.1MPa...0MPa~0.01MPa...160MPa(G) 0MPa~0.025MPa...60MPa(A)
Over pressure	200%FS or 150MPa(min.value is valid)
Media	liquid or gas which is compatible with stainless steel
Power supply	10~30VDC, suggested 24VDC
Output signal	4~20mADC 2-wire
Load	$R_L \leq ((U-10)/0.02)(\Omega)$
Accuracy	$\pm 0.25\%FS$, $\pm 0.5\%FS$ (including non-lin., rep. and hys.)
Thermal error	$\leq \pm 0.025\%FS/^{\circ}C$ (@25 $^{\circ}C$)
Long-term stability	$\leq \pm 0.5\%FS/year$
Endurance	10 ⁶ pressure cycles
Environment temp	-40 $^{\circ}C$ ~+80 $^{\circ}C$
Media temp.	-40 $^{\circ}C$ ~+150 $^{\circ}C$
Relative Humidity	0~90%RH
Protection	IP65
Response frequency	>1kHz
Insulation	100M Ω , 50VDC
Pressure port and housing	stainless steel 1Cr18Ni9Ti
Wiring plug	Hirschmann plug

Outline Construction (Unit: mm)

G(P<16kPa) Construction

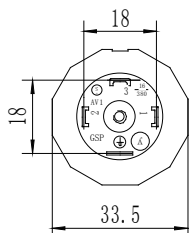


G(P≥16kPa) And A Construction



Electrical Connection

Current output(4~20mADC)	Pin
(+V)	1
(0V)	2
Null	3



Order Guide

MPM4530		High-temperature Pressure Transmitter						
		Measurement range	0~0.004MPa...100MPa					
		[0~X] kPa or MPa	X= measurement range					
			Type code					
			MSV	Pressure range: -0.1MPa...0~0.004MPa...160MPa				
				Code	Output signal			
				E	4~20mADC			
						Code	Others	
						C5	M20×1.5 male, waterline seal	
						G	Gauge	
						A	Absolute (only for type MSV)	
MPM4530	[0~2]MPa	MSV	E	C5G	the whole spec			

Notes

1. Please pay attention that the media should be compatible with contacted material;
2. MSV type could provide gauge, absolute measure;
3. If the user has special requirement, please feel free to contact our company.