

# MPM4530 High-temperature Pressure Transmitter

## 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.

## Specification

Pressure range:	-0.1MPa...0MPa~0.01MPa...160MPa(G); 0MPa~0.025MPa...60MPa(A)
Overpressure:	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:	4~20mA DC 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

<http://www.microsensor.cn>

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Insulation: 100M $\Omega$ , 50VDC

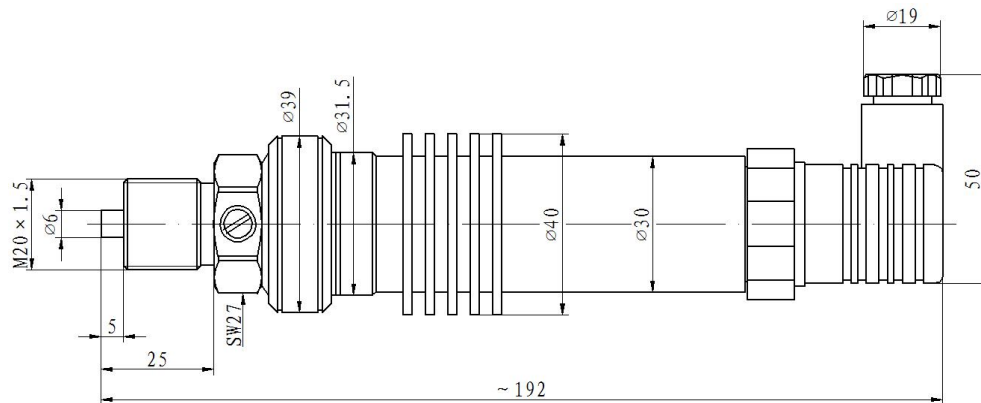
Pressure port and housing: stainless steel 1Cr18Ni9Ti

Wiring plug: Hirschmann plug

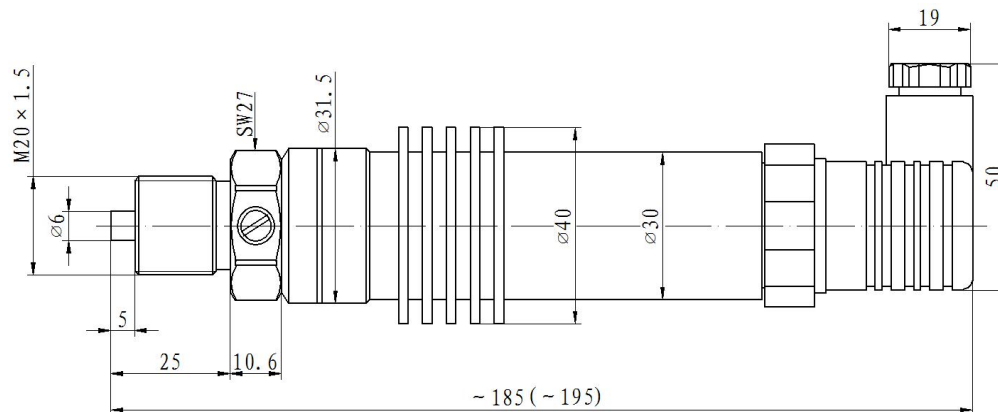
## Outline Contruction

(Unit: mm)

- G (P<16kPa) Construction

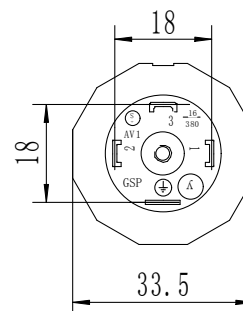


- G (P $\geq$ 16kPa) And A Construction



## Electric Connection

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



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## 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		
			C <sub>5</sub>	M20×1.5 male, waterline seal		
			G	Gauge		
			A	Absolute (only for type MSV)		
MPM4530	[0~2]MPa	ASV	E	C <sub>5</sub> G	the whole spec	

## Order Note

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