



- Strong Body Structure Against High Temperature
- ZERO and SPAN Setting
- More durable with INCONEL 718 Alloy Membrane
- High Stability
- Accurate measurement
- Insensitive to Electrical Noise
- J Type Thermocouple (FE-CuNi)
- Long life
- Different Signal Options: 4-20mA, 0-10VDC, 3.33 mV / V

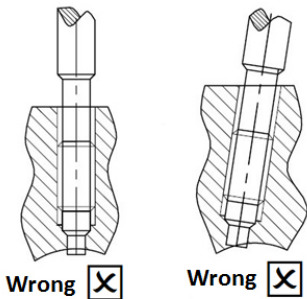
They are used to measure the pressure and temperature of hot fluids in the plastics, rubber, food, etc. sectors. In this way, the quality of the production is higher and damage due to the high pressure is provided to the machine.

The MPT series are low cost and high quality products. The MPT makes mercury measurements in the series. In products in the health and food sector, oily measurements are made.

Also available are EPA Series Digital Measuring and Control Devices which are used to display the measured value.

### Technical Features

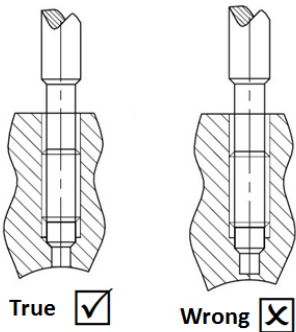
<b>Pressure Range</b>	0-350BAR , 0-500BAR , 0-700BAR (Optional between 35BAR and 2000BAR)
<b>Output Signals</b>	4-20mA , 0-10VDC 3,33 mV/V , 2 mV/V
<b>Supply Voltage</b>	24VDC , for 4-20mA/0-10V output models 10VDC, for mV/V output models
<b>Max. Temperature</b>	400°C -752°F
<b>Max. Pressure</b>	1,5 x FS
<b>Accuracy</b>	±0,5% FS
<b>Repeatability</b>	±0,2% FS
<b>Internal Calibration Signal</b>	80% FSO ±1.0%FSO
<b>Thermocouple</b>	Standard J type for MPT133, Optional K and E models
<b>Electrical Connection</b>	6 pin socket
<b>Process Connection</b>	½-20 UNF standard ( Optional M14x1.5 , M18x1.5 ) Mounting torque value : 30Nm
<b>Body</b>	Stainless Steel
<b>Membrane Material</b>	Inconel 718 (Chrome-Nickel Alloy)
<b>Protection Class</b>	IP 65
<b>Zero shift due to temperature change</b>	1,72BAR( 25PSI ) / 38°C( 100°F)
<b>Other</b>	Zero and Span Settings (except "3,33 mV" model)



Wrong ❌

Wrong ❌

One thing to note during installation is that the extreme part of the sensor, which is the pressure measuring part, is not damaged during installation. If this part is damaged, the sensor will not measure.



True ✅

Wrong ❌

### Order Details

#### Model No

MPT - 133 - 350bar - 1/2 - J - V

#### Pressure Range

350Bar : 0...350Bar  
500Bar : 0...500Bar  
700Bar : 0...700Bar

#### Thermocouple Type

J : "J" Type  
K : "K" Type

**Recommended Accessories**  
Process Control Devices "EPA Series"



6 pin socket

#### Body Material

133: With thermocouple  
123: Without thermocouple

#### Mechanical Connection

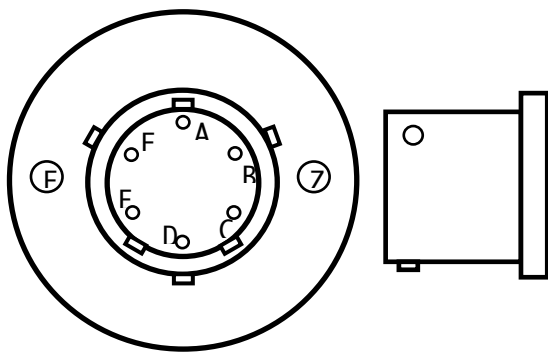
½ : ½"20 UNF  
M14 : Metric 14 ( M14 x 1,5 )

#### Output Signal

V : 0-10VDC  
mA : 4-20mA  
mV : 3,33mV/V



## Electrical Connections



### 3,33mV/V or 2,00mV/V Analog Output

A : +Signal Out      B : -Signal Out  
 C : +Supply Voltage +10VDC      D : -Supply Voltage GND  
 E,F : Calibration (FS %80)

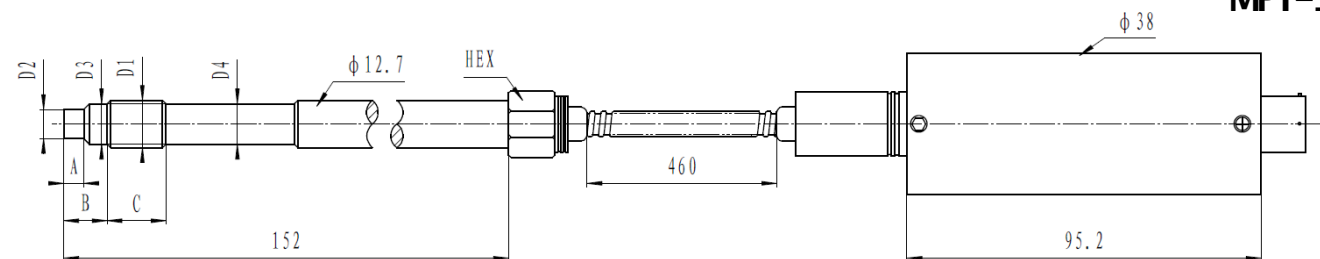
### 0-10VDC Analog Output

A : +Signal Out (0 - 10VDC)      B : -Signal Out  
 C : +Supply Voltage +24VDC      D : -Supply Voltage GND  
 E,F : Calibration (FS %80)  
 Z : Zero      S : Span

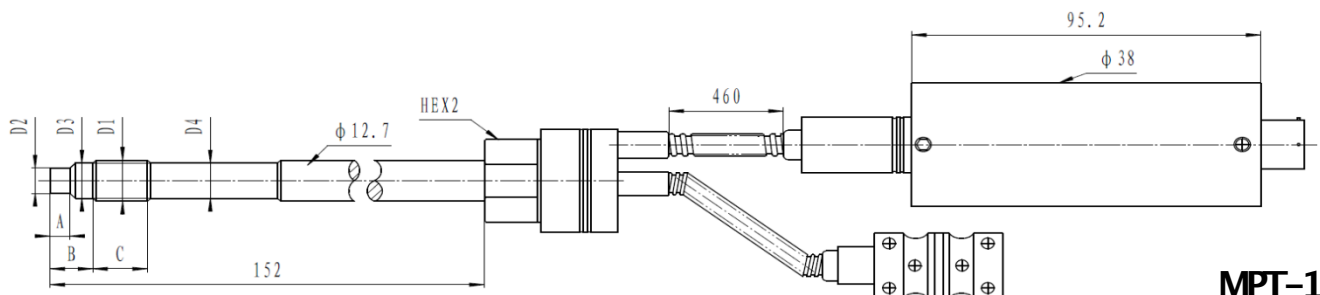
### 4-20mA Analog Output (2 Wire Connection)

A : + Supply Voltage 24 VDC      B : - Signal(4-20mA Output)  
 E,F : Calibration (FS %80)  
 Z : Zero      S : Span

## Mechanical Dimensions



**MPT-123**



**MPT-133**

D1	D2	D3	D4	A	B	C	HEX	HEX2
1/2-20UNF	$\phi 7.8^{+0.02}_{-0.06}$	$\phi 10.5$	$\phi 10.8$	5.44	11.5	16	16	22
M14 x 1.5	$\phi 7.8^{+0.02}_{-0.06}$	$\phi 11.5$	$\phi 11.8$	5.44	11.5	16	16	22