

## Pressure Sensor MP500K

- Suitable to measure dynamic air gauge pressure;
- Small size, M5×0.5 mounting;
- Measurement range absolute 500kPa,
- Response time  $\leq 20\mu\text{s}$ ;
- Anti-shock  $>100\text{g}$ .



Pressure sensor MP500K, based on piezo resistance effect, includes a full bridge circuit. There is resistance changed by measurement air pressure different, then the voltage signal can be converted according to the resistance difference. The reasonable MEMS process makes sure the sensor good linearity performance and stability. The sensor includes wear-resisting cable with default length 8m. And the LEMO connector and Dallas ID are optional.

### Technical Specification (5V, 25°C):

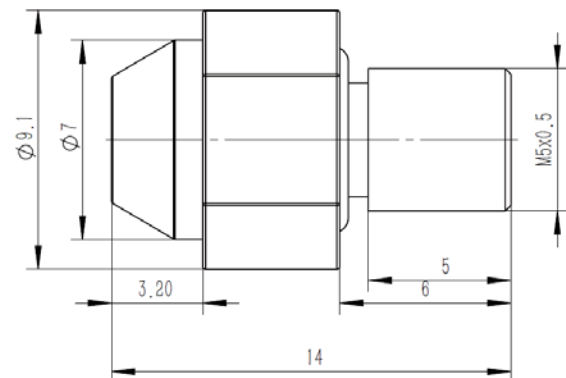
Name	Unit	Value
Meas. Range	kPa	500
Over Load	kPa	750
Non-linearity	%FS	$\leq \pm 0.5$
Response Freq.	kHz	DC-50
Offset	mV	$<50$
Span signal	mV	75~125
Warm Up	ms	$<50$
Excitation Voltage	VDC	5
Power Current	mA	$<10$
Anti-Shock	g	$>100$
Isolation	MΩ	$>100$
Operation Temp.	°C	-20~70
Storage Temp.	°C	-40~125
Case Material	/	Stainless Steel
Weight	grams	2.0
Dimension	mm	9.1× 14.0

Default Cable Length 8m;

Connector and ID as required;

Other mounting screws are optional.

### Drawing Reference:



### Wire Assignment:

Red	Excitation+
Black	Excitation-
White	Signal-
Green	Signal+
Shield	Connector Case