

Model DPS120

OEM pressure sensor
Excellent overpressure

Materontek
Sensing and Internet of Things

Features

- ❑ Pressure chip encapsulated in an oil-filled metal housing
- ❑ Measuring ranges from 0.06bar to 400bar
- ❑ Accuracy: $\pm 0.2\%FSO$ (Typ.)
- ❑ Excellent overpressure



Application

- ❑ Pressure measurement
- ❑ OEM
- ❑ Water treatment
- ❑ IoT pressure measurement

Technical data

Performance		
Accuracy*	$\pm 0.2\%FS$ (typ.)	* Using SCC133 signal conditioning circuit board, the accuracy can reach 0.1% FS
Linearity	$\pm 0.2\%FS$ (typ.)	
Hysteresis	$\pm 0.03\%FS$ (typ.), $\pm 0.05\%FS$ (max.)	
Repeatability	$\pm 0.03\%FS$ (typ.), $\pm 0.05\%FS$ (max.)	
Operating temperature	-40 to 85 °C	
Vibration	10 g RMS(20 to 2000Hz)	
Shock	100 g(10ms)	
Cycles	10×10^6	
Long term stability	$\pm 0.1\%FS$ (typ.)	

Electrical @25°C	
Full scale output	10~20 mV/V(typ.)
Excitation	3~8 VDC
Built-in temperature sensor	mV output signal
Bridge resistance	10 k Ω
Insulation resistance	100 M Ω @100VDC

Physical Specifications	
Housing	316 stainless steel
Diaphragm	316L stainless steel/Hastelloy C-276/Tantalum/SUS316L Gold plating
Oil Filling	Silicone oil / fluorine oil (optional)
Weight	~290g

The listed specifications and dimensions are subject to change without prior notice

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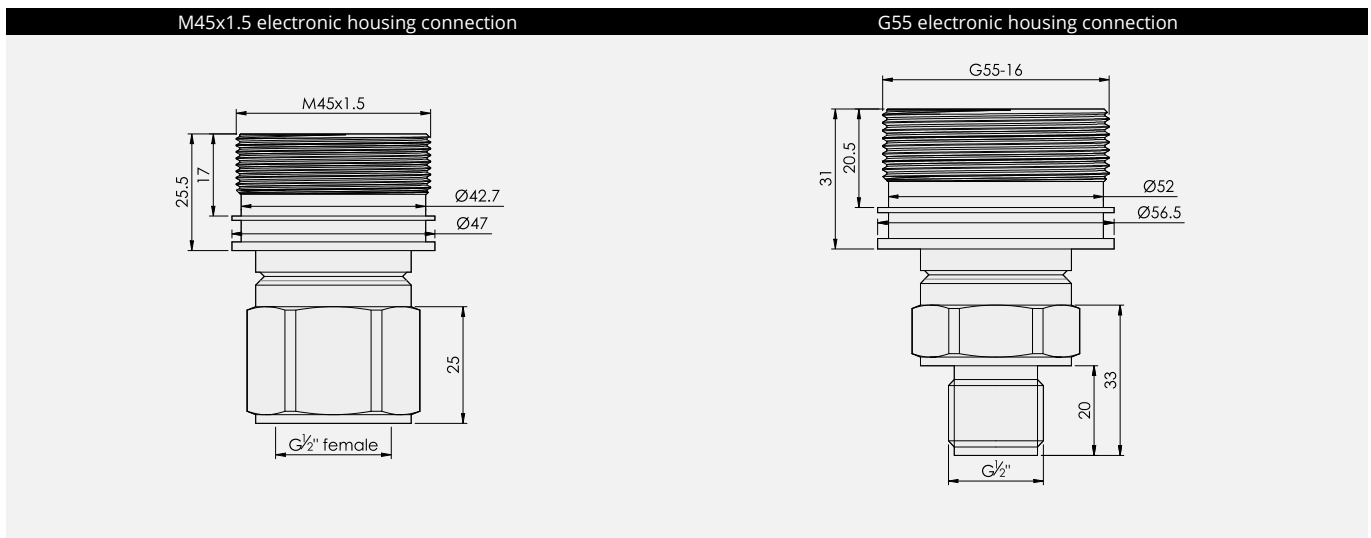
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Standard pressure range

Code	Nominal pressure [bar]	Overload pressure [bar]
01	0...0.06	20
02	0...0.4	40
03	0...1	60
04	0...4	80
05	0...40	120
06	0...400	600

Dimensions (All dimensions in mm)



Ordering code

Model	Range	Type	Output / Excitation	Electrical Connection	Compensation
DPS120	Code	G gauge	A mV / 3~8VDC	F Rubber wires(L=80mm)	NA without temperature compensated
		A Absolute			

Pressure connection	Electronic Housing Connection	Diaphragm
G1 1/2" NPT female	E1 M45x1.5	S1 316L stainless steel
G2 G1/2 female	E2 G55-16	S2 Hastelloy C-276/
G3 1/2" NPT male		S3 Tantalum
G4 G1/2 male		S4 SUS316L Gold plating
G5 M20x1.5 male		