

P60

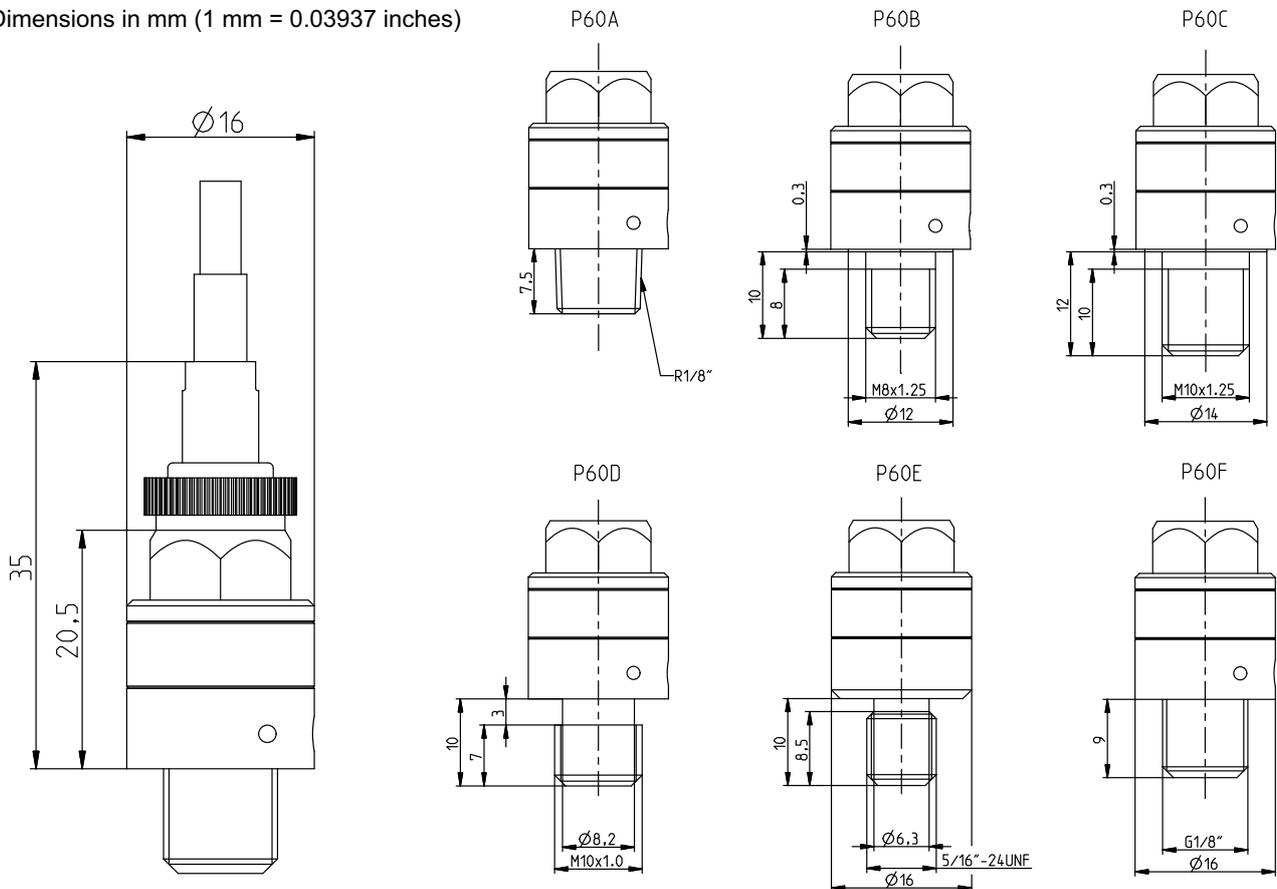
Pressure Transducer



Special features

- **Small design:** allows installation in nearly any place
- **Capable of high temperatures:** up to 150°C in the nominal range
- **Lightweight:** optimal for mobile applications
- **Plug-able type:** easy mounting and cable routing
- **Four nominal pressure ranges**
- **Six different pressure connection types**

Dimensions in mm (1 mm = 0.03937 inches)



Specifications

Type	P60				
Accuracy class	0.3				
Principle of measurement	Strain gage				
Mechanical input quantities					
Pressure type	-	Relative pressure			
Measuring range	bar	20	50	100	200
Operating range at reference temperature	%	100			
Overload limit at reference temperature	%	150			
Destructive pressure	%	>150			
Dynamic loading:					
Permissible pressure	%	100			
Permissible oscillation with a typical 10,000,000 DIN 50100 load cycles	%	100			
Output characteristics					
Nominal (rated) sensitivity	mV/V	1.8 ±0.6			
Linearity deviation	%	±0.3			
Relative reversibility error (Hysteresis)	%	±0.2			
Zero signal tolerance	mV/V	±0.5			
Repeatability	%	±0.1			
Temperature effect on the zero signal relative to the measuring range, per 10 K, in the nominal (rated) temperature range	%	±0.08			
Temperature effect on the sensitivity relative to the actual value, per 10 K, in the nominal (rated) temperature range	%	±0.1			
Input resistance	Ω	350 ±5%			
Output resistance	Ω	350 ±5%			
Natural frequencies	kHz	≈45	≈60	≈70	≈85
Excitation voltage					
Reference excitation voltage	V AC or DC	2			
Recommended excitation voltage	V AC or DC	1...2.5			
Max. excitation voltage	V AC or DC	5			
Ambient conditions					
Reference temperature	°C	23			
Nominal (rated) temperature range	°C	-40...+150			
Operating temperature range	°C	-40...+160			
Storage temperature range	°C	-40...+160			
Environmental resistance					
Vibration	-	500 Hz, 15 g			
Shock	-	75 g, 11 ms			
		(D1601-1996 Automotive standard)			
Mechanical specifications					
Pressure connection	-	See table below			
Electrical connection	-	4-conductor (0.09 mm ²) silicone cable, 4 m, Ø3 mm, free ends			
Liquid contact part	-	1.4542 (SUS 630)			
Weight without cable, approx.	g	20			
Degree of protection	-	IP45			

Process connection threads

Model	Thread
P60A	R1/8, male
P60B	M8 x 1.25, male
P60C	M10 x 1.25, male
P60D	M10 x 1.0, male
P60E	5/16-24UNF, male
P60F	G1/8, male

Scope of delivery

- Transducer P60; incl. connection cable
- O-rings for sealing (2 pcs; suitable to type; fluororubber; except P60A)
- Mounting instructions
- Individual test report
- Cover for connection socket
- 1.5 mm Hexagon wrench for air-vent screw; depending on type

Subject to modifications.
All product descriptions are for general information
only. They are not to be understood as a guarantee
of quality or durability.

Hottinger Baldwin Messtechnik GmbH
Im Tiefen See 45 · 64293 Darmstadt · Germany
Tel. +49 6151 803-0 · Fax +49 6151 803-9100
Email: info@hbm.com · www.hbm.com

measure and predict with confidence

