

Pressure Sensors

Types PF3 P and PF3 S






The PF-3 transducer series belongs to our pressure family and refers to sensors for measuring liquid pressures. These sensors can be connected to a fitting via the thread on the front and thus establish contact between the sensor membrane and the liquid pressure to be measured. The standard versions offer either a 1/2" or an Ermeto 6S thread. Special adaptations and other threads are also available on request.

TECHNICAL DATA

	PF3 P	PF3 S
Dimensions (Ø / length)	30 × 200 mm	30 × 230 mm
Material	V4A 1.4571	V4A 1.4571
Weight	650 g	640 g
External connection	1/2"	EO SV6S
Internal connection	3 mm	3 mm
Protection class	IP 68	IP 68

SENSOR-SPECIFIC DATA

Sensor types	 AU Pressure Sensor piezoresistive, 4-wire system	 AI Pressure Sensor piezoresistive, 2-wire system	 VW Pressure Sensor vibrating wire system
Supply	1 mA	15–30 V	VW excitation (pulse, sweep)
Output signal	0–250 mV	4–20 mA	2–3.3 kHz
Standard measuring ranges	0.5 / 1 / 2 / 5 / 10 / 20 / 50 / 100 bar	0.5 / 1 / 2 / 5 / 10 / 20 / 50 / 100 bar	0.7 / 1.7 / 3.5 / 5 / 7 / 10 / 20 / 35 / 70 / 100 bar
Over range	50 % FS	50 % FS	50 % FS
Resolution	± 0.01 % FS	± 0.01 % FS	± 0.01 % FS
Accuracy (laboratory)	± 0.25 % FS	± 0.25 % FS	± 0.25 % FS
Linearity	< 0.5 % FS	< 0.5 % FS	< 0.5 % FS
Temperature range	+5 °C to +80 °C	+5 °C to +80 °C	+5 °C to +80 °C
Thermal zero shift	≤ 0.06 % FS/K	≤ 0.06 % FS/K	≤ 0.06 % FS/K
Temperature sensor	Thermistor (optional)	Thermistor (optional)	Thermistor (standard)
Maximum cable length	1000 m	2000 m	2500 m