



Process sensors

Pressure transmitters with DEUTSCH, AMP or M12 connector for mobile applications



Pressure sensors



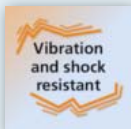
Compact design (AF19) with process connection G 1/4 male

**Fast reaction:
2 milliseconds response time**

**Measuring accuracy $< \pm 0.8 \%$,
repeatability $< \pm 0.05 \%$**

**Easy connection via DEUTSCH,
AMP or M12 connector**

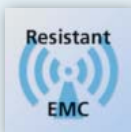
**Available output functions:
4...20 mA, 0...10 V and 0.5...4.5 V**



Vibration
and shock
resistant



IP 67
IP 69 K



Resistant
EMC



Miniaturisation for mobile applications

The connectors of the new PT/PU pressure sensors allow fast and easy installation in mobile machines.

The sensors also feature a thin-film measuring cell directly welded with the process connection.

This technology guarantees high accuracy in a very compact housing with only 19 mm across flats at a cost-optimised price/performance ratio.

Applications

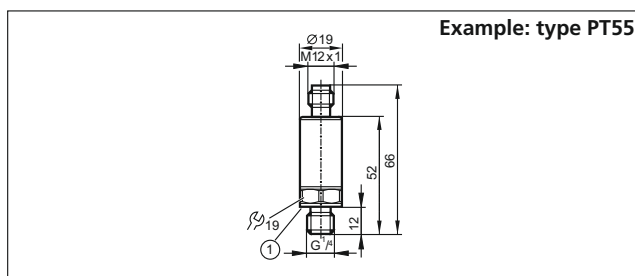
The PT/PU type sensors are suited for mobile applications and especially for hydraulic and pneumatic applications with high operating pressure.

The high vibration and shock resistance, the high protection rating, the excellent EMC resistance and the E1 conformity make the PT/PU sensors particularly suitable for use in mobile machines.




Measuring range relative pressure [bar]	P _{overload} max. [bar]	P _{burst} min. [bar]	Order no.	Order no.	Order no.
Output function 4...20 mA,			M12 connector	AMP connector	DEUTSCH connector
0...10	25	300	PT5504	PT5604	PT5704
0...25	65	600	PT5503	PT5603	PT5703
0...100	250	1000	PT5502	PT5602	PT5702
0...250	625	1200	PT5501	PT5601	PT5701
0...400	1000	1700	PT5500	PT5600	PT5700
0...600	1500	2400	PT5560	PT5660	PT5760
Output function 0...10 V			M12 connector	AMP connector	DEUTSCH connector
0...10	25	300	–	PU5604	PU5704
0...25	65	600	–	PU5603	PU5703
0...100	250	1000	–	PU5602	PU5702
0...250	625	1200	–	PU5601	PU5701
0...400	1000	1700	–	PU5600	PU5700
0...600	1500	2400	–	PU5660	PU5760
Output function 0.5...4.5 V fixed			M12 connector	AMP connector	DEUTSCH connector
0...10	25	300	PU8504	–	PU8704
0...25	65	600	PU8503	–	PU8703
0...40	100	800	–	–	PU8743
0...60	150	900	PU8523	–	–
0...100	250	1000	PU8502	–	PU8702
0...160	400	1100	–	–	PU8712
0...250	625	1200	PU8501	–	PU8701
0...400	1000	1700	PU8500	–	PU8700
0...600	1500	2400	PU8560	–	PU8760

Dimensions



1) HNBR seal / DIN 3869

Accessories

Type	Description	Order no.
	Adapters; G 1/4 - G 1/2, high-grade stainless steel (316Ti/1.4571)	E30135

Common technical data

Operating voltage	PT [V DC] PU [V DC]	8...32 16...32
Reverse polarity protection		•
Accuracy / deviation (in % of the span)		< ± 0.8
Linearity error		< ± 0.25 BFSL / < ± 0.5 LS
Linearity		
Medium temperature	[°C]	-40...125
Protection		IP 67 / IP 69K
Materials wetted parts		1.4542 (17-4 PH / 630), characteristics similar to stainless steel (e.g. 304/1.4301) but higher strength
Step response time	[ms]	2
Restrictor		•
EMC		Compliant with UN-ECE10 Rev. 4 ISO 11452: 100 V/m EN61326