

Electronic pressure transducer for hydraulic applications, with internal stainless steel diaphragm, linearity error 0.5 % f. s.

Features

Rugged stainless steel construction, for increased demands
compact design

Measuring ranges

0...10 bar to 0...1,000 bar gauge

Applications

Hydraulic and pneumatic systems,
machine and apparatus engineering,
press control,
shipbuilding and offshore applications



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Technical Data

Sensor element:	Piezoresistive silicon measuring cell			
Materials:	Wetted parts: Stainless steel, material no. 1.4301 Electronics housing: Stainless steel, material no. 1.4571 Seals: FKM, EPDM			
System of protection:	IP67 with PG/IP65 with plug			
Protection class:	III			
Process connection:	G1/4 M, 1/4"NPT M			
Dimensions:	ø24 x 86 mm (without plug connector)			
Weight:	130 g			
Measuring ranges [bar]:	10	50	100	200
Proof pressure [bar]:	15	75	150	300
Measuring ranges [bar]:	400	600	800	1000
Proof pressure [bar]:	600	800	1500	1500
Linearity error:	≤ ±0.5 % v. f. s.			
Electrical connection:	Plug M12 x 1, 5-pin			

Temperature influence:	≤ ±0.2 % f. s. / 10K
Compensation range:	-10 °C...+70 °C
Repeatability:	≤ ±0.1 % v. f. s.
Temperature range:	Medium: -25 °C...+100 °C Electronics: -25 °C...+ 80 °C Storage: -40 °C...+100 °C
Output signals:	4...20 mA (2-wire) 0...10 V DC (3-wire)
Power supply:	8...30 V DC, 13...30 V DC at 0...10 V, reversed polarity protected (SELV, PELV)
Power consumption:	max. 30 mA at current output max. 10 mA at voltage output
Load:	≤ (U _b -8 V) / 20 mA
Delay:	≤ 1 ms
Accessories:	Damping screw to limit pressure peaks
Approval:	GL optional

Specifications are subject to changes without notice.

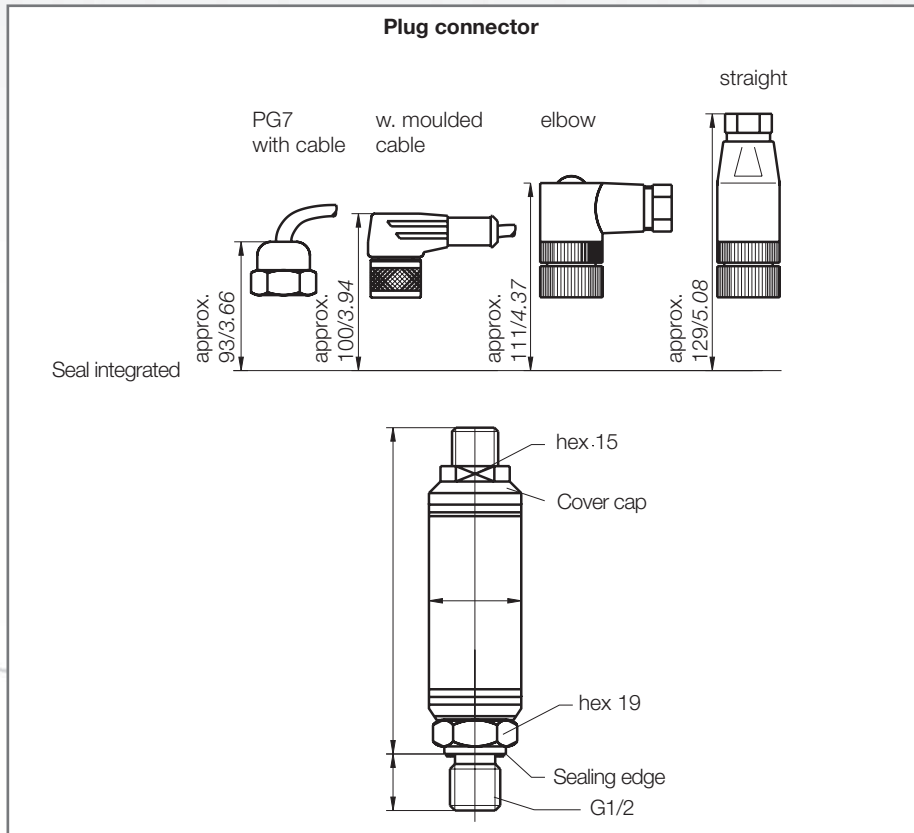
Pressure

Electronic Pressure Transducers

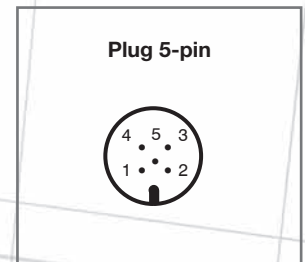
Type UPA 3

Dimensions (in mm / inch)

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Plug



Electrical Connection

Connection	Current output 4...20 mA (2-wire)			Voltage output 0...10 V (3-wire)		
	Plug	Cable	GL cable	Plug	cable	GL cable
+ Supply	1	brown	blue 1	1	brown	blue 1
- Supply	2	white	blue 2	3	blue	blue 2
+ Signal	---			2	white	white 1
- Signal	---			---		

Order Numbers

All UPA 3 pressure transducers, plug M12x1			
Measuring ranges [bar] relative pressure	Overpressure [bar]	Order No. 4...20 mA	Order No. 0...10 V
0... 10	15	0432-099	0432-105
0... 50	75	0432-100	0432-106
0... 100	150	0432-101	0432-107
0... 200	300	0432-102	0432-108
0... 400	600	0432-103	0432-109
0... 600	800	0432-104	0432-110

Further measuring ranges on request

Accessories

Order Number	Description
901-0677	Damping screw with 0.2 mm restriction against quick pressure changes and high pulsation rate

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