

Type UPA 2 - TPHA

for high pressure applications,
with internal stainless steel diaphragm,
accuracy class 0,3% f. s.

Features

Compact and rugged stainless steel construction
High over pressure proof
Protection class IP65
High long term stability

Measuring Ranges

0...1500 bar to 0...5000 bar gauge

Applications

High pressure hydraulic systems,
high pressure cutting systems,
test equipment, research, material tests



Technical Data

Sensor element : Metal strain gauge glued
(4 active elements)

Materials:
Housing : Stainless steel AISI 304
Wetted Parts : Stainless steel 15-5 PH
Sealing sensor : O-ring Viton (PN >100 bar: NBR)

Protection Class : IP65

Pressure Connection : M16 x 1,5 F acc. to Nova Swiss

Dimensions : \varnothing 32 mm x 129 mm
(without electrical plug)

Weight : 340 g

Pressure Ranges (bar) : 0...1500 to 0...5000 bar
(0...20000 to 0...72500 psi)

Max. Applicable Pressure: (without degradation of the specific)
2 x full scale
(max. 6000 bar / 86000 psi)

Resistance to Bursting : 3 x full scale
(max. 6000 bar / 86000 psi)

Linearity Error : <0,3% f. s.

Nominal Pressure
Signal Control : $\pm 0,5\%$ f. s.

Ambient Pressure
Signal Control : $\pm 0,5\%$ f. s.

Electrical Connection : Plug 3-pin + ground
DIN 43650

Temperature Drift (Zero - Span - Sensor)
in Compensated Range : $\leq \pm 0,02\%$ f. s. / °C
: $\leq \pm 0,01\%$ f. s. / °F

Compensated
Temperature Range : 0...70 °C / 32...158 °F

Permitted
Temperature Range : -30...+85 °C / -22...185 °F

Power Supply : 10...30 V DC

Nominal Pressure Signal
 $\pm 0,5\%$ f. s. : 20 mA

Ambient Pressure
Signal $\pm 0,5\%$ f. s. : 4 mA

Resistance of Isolation : (at 50 V DC) >1000 MOhms

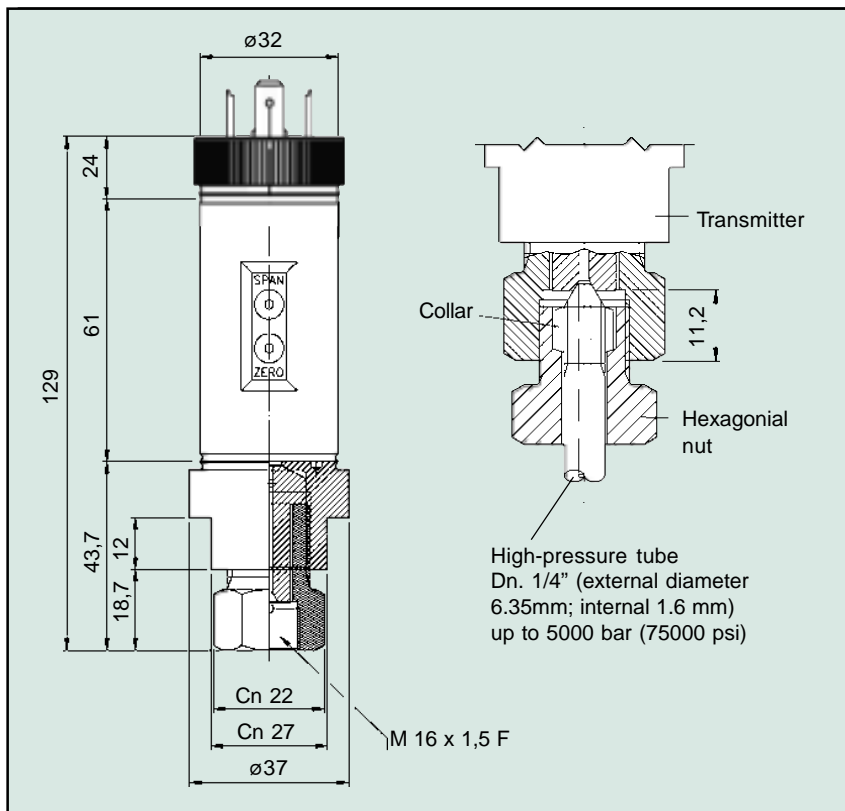
Max. permitted Load : see diagram

Max. Response Time : 8 ms
(0...90% f.s.)

Output short circuit
protection and reverse
power polarity : yes

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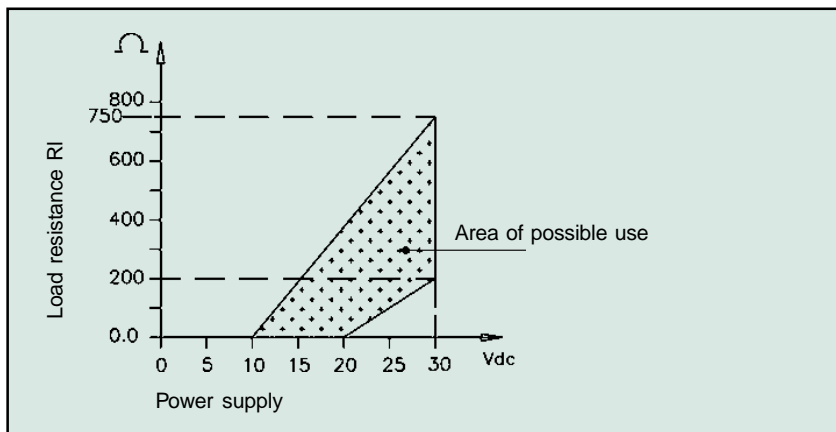
Dimensions (in mm)



Connection Chart

	Current output 4...20 mA (2-wire)
Connection	Plug/cable
+ Supply	1/brown
- Supply	2/white
+ Signal	---
- Signal	---

Load diagram (Current output)



Order numbers

Pressure transducer, process connection M 16 x 1,5 F and plug 3-pin + ground DIN 43650		
Measuring ranges (bar)	Analog output	Order number
1500	4...20 mA	0436-001
2000	4...20 mA	0436-002
3500	4...20 mA	0436-003
5000	4...20 mA	0436-004

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Electronic Pressure Transducers and Pressure Switches

Specifications are subject to changes without notice.