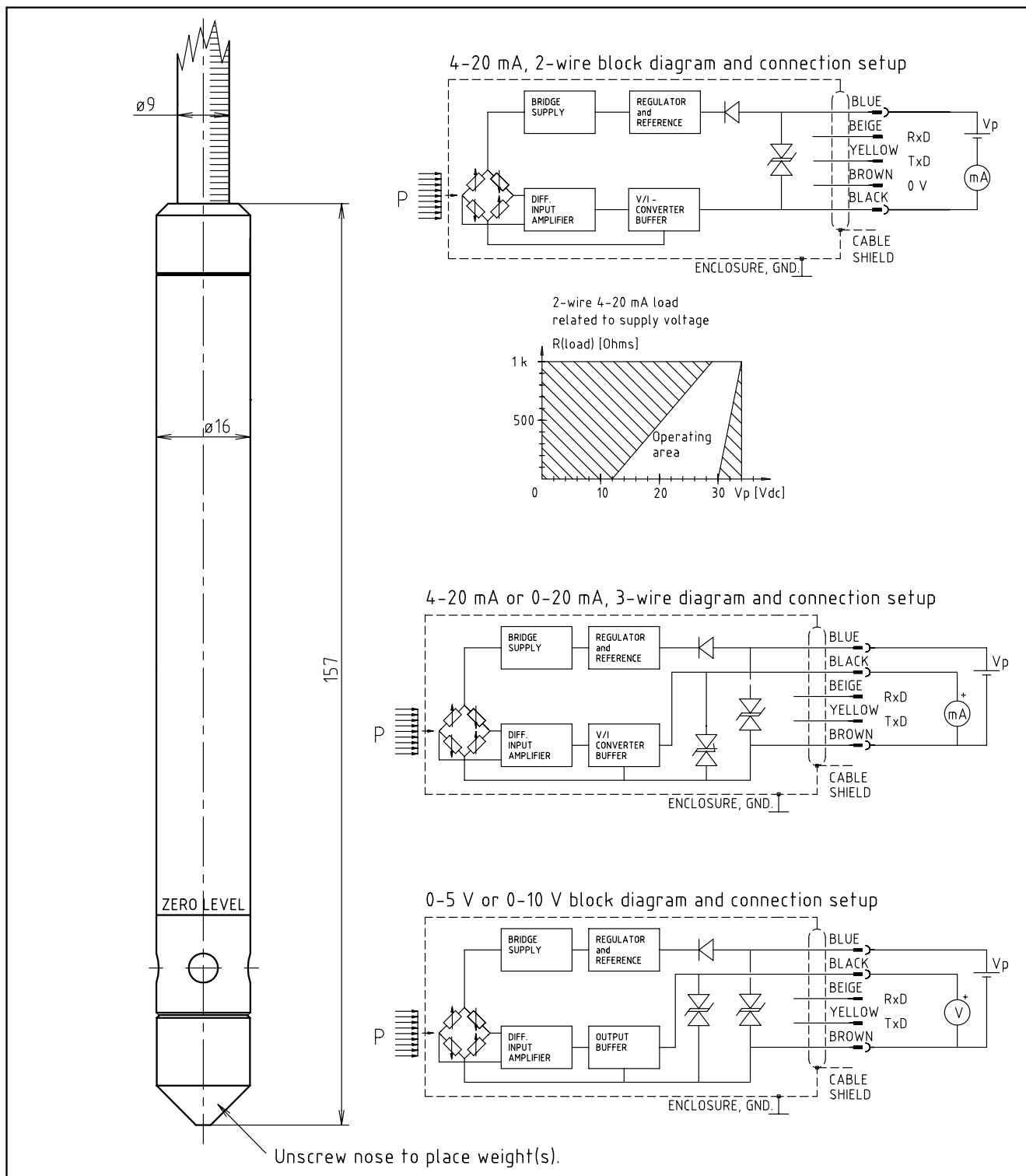


DEPTH & LEVEL TRANSMITTER PTLS – ø16 mm



DESCRIPTION

The pressure transmitter is based on a piezoresistive silicon sensor. All wetted metallic parts are made from titanium and laser welded together. After amplification the sensor signal is converted and processed by a micro-controller before feeding it to the analog output stage. Pressure range selections are achieved through RS232 and a software package. The backside of the sensor (gauge version) is ventilated to the atmosphere through a polyamide tube in the cable. The shield in the cable is connected to the housing. All transmitters are leak tested with helium. The transmitter is terminated with a removable protective cone made of PVC (threaded with M10). The thread can be used for adding additional weight.

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SENSOR TECHNOLOGY

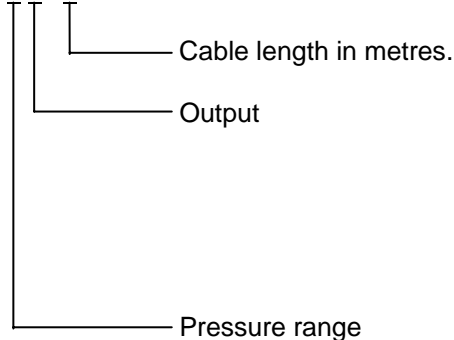
SPECIFICATIONS

Nominal pressure ranges	1 or 10 bar gauge. 10 or 100 mWC gauge. Intermediate ranges possible.
Calibrated ranges	20 %, 50 % and 100 % of nominal pressure
Pressure limit	2 times rated pressure without damage.
Material	Titanium grade 2 and 5.
Supply voltage - A, B and BA - C - E	12-30 V _{DC} , 4 mA + output signal current. 9 V _{DC} , max 4 mA. 14 V _{DC} , max 4 mA
Supply voltage effect	< 0.03 %/V.
Output signals and load - A - B - BA - C - E	4-20 mA _{DC} , 2-wire, R _L : see diagram, C _L < 1µF 0-20 mA _{DC} , 3-wire, R _L < 500 Ω , C _L < 1µF 4-20 mA _{DC} , 3-wire, R _L < 500 Ω , C _L < 1µF 0-5 V _{DC} , 4-wire, R _L > 10 kΩ. C _L < 1µF 0-10 V _{DC} , 4-wire, R _L > 10 kΩ. C _L < 1µF
Response time (0-100 %)	5 msec, 10 msec for 4-20 mA output configuration
Temperature range - working - compensated	-25 °C to +85 °C -2 °C to +30 °C
Temperature effects (total error band of FSO) - working range - compensated range	< ± 1.0 %. < ± 0.1 %.
Non-linearity	< 0.1 %.
Repeatability	< 0.05 %
Transducer weight	100 grams.
Surge immunity	According to IEC 61000-4-5: 1995 + Corr1: 1995 2 kV/42 Ohm between wires 4 kV/2 Ohm on cable shield
Cable	Outer insulation: Ø9 mm black PUR. 5x0.5 mm ² PVC insulated wires + 2 supporting wires. Ventilation: ø2.5 mm polyamid capillary tube. Weight: 70 g/m.
Protection class	2 times range, minimum 20 mWC

ORDERING INFORMATION

PTLS

x x / x



A: 4-20 mA, 2-wire
B: 0-20 mA, 3-wire
BA: 4-20 mA, 3-wire
C: 0-5 V, 4-wire
D: For Aquatronic logger
E: 0-10 V, 4-wire

b: bar
m: meter water column

PSL-16

300 g extra weight (stainless steel AISI 316)

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4.2.2