



Pressure transducers HydroFox® DMU 08

Part no. 31561

Pressure transducers

benefits

- compact and sturdy stainless steel design
- special calibration for all standard pressure units possible
- version with PUR or FEP cable
- high measuring accuracy at excellent price/performance ratio
- watertight up to 10 m water column - ideal for use in flood hazard areas
- Optional Ex version

Application

For electronic, continuous level measurement, e.g. in wells, drilling holes, water, containers or in waste water systems. Suitable for groundwater, drinking water, waste water (with optional FEP cable), diesel fuel, fuel oil; also for use in flood hazard areas.

Description

The level indicators HydroFox® DMU 08 use silicon technology and feature calibrated, amplified sensor signals which are available as standardised voltage or current outputs.

Technical Specifications

Measuring accuracy

Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability)
 $> 0/400 \text{ mbar} < \pm 0.35 \% \text{ FSO}$

Measuring range

0/1 bar

Operating temperature range

Medium: $-10/+70 \text{ }^{\circ}\text{C}$
 Ambient: $-10/+70 \text{ }^{\circ}\text{C}$
 Storage: $-25/+70 \text{ }^{\circ}\text{C}$

Temperature error band

$> 400 \text{ mbar}$
 $\leq \pm 0.75 \% \text{ FSO}/10 \text{ K}$ In compensated range $0/70 \text{ }^{\circ}\text{C}$

dynamic characteristics

Response time: $\leq 10 \text{ ms}$

Probe

L x $\varnothing$: $117 \times 24 \text{ mm}$
 Weight: 620 g

material

Housing: Stainless steel 316 L
 diaphragm: Stainless steel 316 L
 seals: FKM (Viton)
 cable: PUR

pressure transmission liquid
Silicone oil

Supply voltage
DC 12 – 36 V

Output signal
4–20 mA, 2-wire

Load
 $R_{\max} = [(UB - UB_{\min})/0.02 \text{ A}] \Omega$

Current input
< 25 mA

Options

- Extended weight
- Measuring accuracy 0.1 % FSO
- FEP cable
- Ex version
- screw connector kit
- Junction box
- Anchor clamp

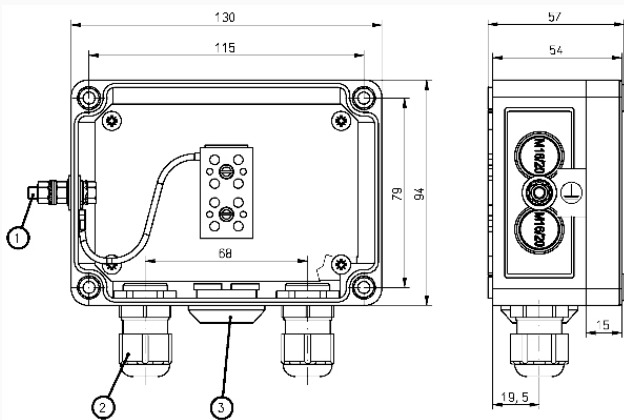
electrical protection
short circuit proof and protected against reverse polarity

Electrical connection
PUR cable with integrated breather tube for reference to the ambient atmospheric pressure
Cable length: 5 m
Degree of protection: IP 68 (EN 60529)

CE conformity
EMC Directive 2014/30/EU
RoHS Directive 2011/65/EU
Pressure Equipment Directive 2014/68/EU

Technical Drawings

Junction box with pressure relief port



Dimensions (mm)

Earth
Cable gland PG 11
Pressure compensation element

Versions

		Measuring range	Overload		Part no.
HydroFox® DMU 08	with 5 m PUR cable	0/1 bar	at least 5 x FS		31561

-  in-stock items
-  Non-stock items