



Pressure transducers HydroFox® DMU 08 T

Part no. 31561T0070

Pressure transducers HydroFox® DMU 08 T Level probe

benefits

- with integrated temperature measurement
- compact and sturdy stainless steel design
- integrated overvoltage protection
- special calibration for all standard pressure units possible

Application

For electronic, continuous level measurement, e.g. in wells, drilling holes, water, containers or in waste water systems. Suitable for groundwater, waste water (with optional FEP cable), diesel fuel and fuel oil.

Description

Pressure transducers HydroFox® DMU 08 convert physical pressure into an electrical signal proportional to the pressure. HydroFox® DMU 08 uses a piezo-resistive silicon measuring cell.

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

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

dynamic characteristics

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

Probe

L x $\varnothing$: $129 \times 26.5 \text{ mm}$

material

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

pressure transmission liquid

Silicone oil

Supply voltage

pressure: DC 12 – 30 V

temperature: DC 10 – 30 V

Output signal

4–20 mA, 2-wire

Load

$$R_{\max} = [(U_B - U_{B_{\min}})/0.02 \text{ A}] \Omega$$

Current input

< 25 mA

Options

- FEP cable
- other measuring ranges
- screw connector kit
- Junction box
- Anchor clamp
- Extended weight

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

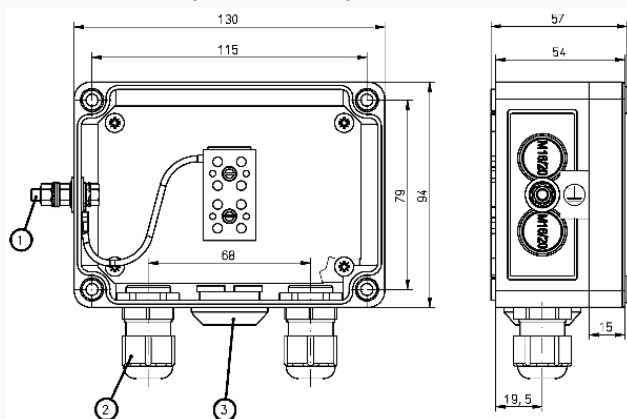
EMC Directive 2014/30/EU

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 T	0/1 bar	at least 5 x FS		31561T0070

-  in-stock items
-  Non-stock items