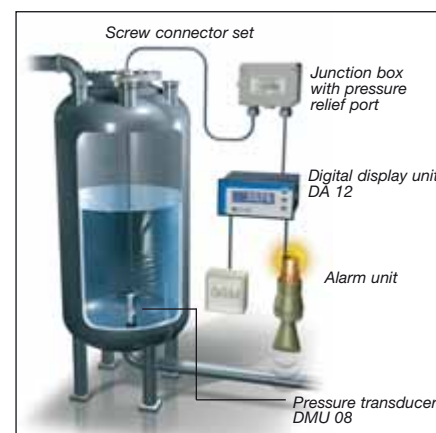


# Hydrostatic level measurement pressure transducer DMU 08



## Application

Continuous electronic level measurement in tanks, wells, drilling holes, water reservoirs and rivers or waste water systems.

## Description

The DMU 08 pressure transducers use silicon technology and feature calibrated, amplified sensor signals which are converted into standardised voltage or current outputs.

## Features:

- Compact and robust stainless steel design
- Choice of PUR or FEP cable
- Special calibration for all standard pressure units
- Integrated voltage overload protection according to EN 61000-4-5

## Accuracy of measurement

Deviation according to IEC 60770 – limit point setting (non-linearity, hysteresis, repeatability):  
 $< \pm 0.35 \% \text{ FSD}$   
 (measuring ranges 0/100 mbar to 0/400 mbar  $< \pm 0.5 \% \text{ FSD}$ )

## Measuring ranges

0/100 mbar to 0/40 bar, relative pressure

## Overpressure safety

Min. 2 x FS  
 (burst pressure min. 3 x FS)

## Operating temperature range

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

## Temperature error band

in compensated range  
 $0/+70^{\circ}\text{C} \leq 1 \% \text{ FSO}$   
 ( $\leq 0.25 \text{ bar} \leq 2 \% \text{ FSO}$ )

## Dynamic characteristics

Response time  $< 10 \text{ ms}$

## Materials

Housing: stainless steel 1.4571  
 Diaphragm: stainless steel 1.4404  
 Seals: FKM (Viton)

## Pressure transmission liquid

Silicone oil

## Supply voltage

DC 12–36 V  
 Ex version DC 14–28 V

## Output signal

4–20 mA, 2-wire

## Load

$4-20 \text{ mA} \leq \frac{U_B (\text{V}) - 12 \text{ V}}{0,02 \text{ A}}$  [Ohm]

## Current input

4–20 mA  $< 25 \text{ mA}$

## EProtective electrical measures

Short circuit proof and polarity protected

## Electrical connection (protection)

PUR cable (IP 68)

## CE conformity (EMC)

EN 61326

## Accessories (optional)

- Screw connector set
- Junction box
- Lightning protection
- Fixing clamp
- Extended weight

## Optional extras

- Ex version (II 1/2 G EEx ia IIC T4)
- FEP cable

DG: H	Part no.	Price €
<b>DMU 08</b> with 5 m PUR-cable		
Measuring range		
0/100 mbar	<b>31555</b>	
0/160 mbar	<b>31556</b>	
0/200 mbar	<b>31557</b>	
0/250 mbar	<b>31558</b>	
0/300 mbar	<b>31519</b>	
Plastic screw connector set, G2 x 1 1/2 x 1	<b>52125</b>	
Junction box with pressure relief port	<b>31824</b>	

Refer to pages 434 to 467 for the complete range of „Pressure Transducer“.