

# Pressure transmitter ceramic 0-10 V

## Article number: 801513 3033

The ceramic 0-10 V pressure transmitter is designed for reliable relative pressure measurement in standard applications. It is characterized by its high accuracy and overpressure safety and delivers a stable 0-10 V signal, ideal for use in hydraulics and pneumatics. Please note that due to the ceramic measuring cell, it is not suitable for ammonia or freons.



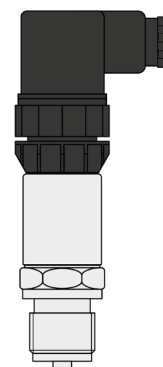
Supply and output	
Output	0 - 10 V (3-Wire)
Load	> 10kOhm
Insulation resistance	500 V DC
Voltage supply	24 V AC / DC
Power input	< 7 mA

Pressure	
Pressure type	Relative pressure
Measuring principle	Ceramic measuring cell (no separate pressure transmitter required)
Pressure range	See table
Accuracy pressure	± 0,3 % of the final value
Response time	2 ms (typ. 1 ms)
Burst pressure / Overload	< 4 bar: 3 x full scale = end value (measuring range); > 4 bar: 2.5 x full scale
Temperature behavior	± 0,02 % per Kelvin

Body	
Material	Stainless steel 1.4305   SUS 303
Color	Black
Dimensions (L/W/H) (mm)	115 x 40 x 30
Wetted parts	Pressure connection made of stainless steel V2A (1.4305); measuring element made of ceramic Al2O3 (96%); sealing material made of FPM (Viton)
Pressure connection	G1/2", back-seating
Electrical connection	0.25 - 1.5 mm <sup>2</sup> , via plug connector DIN EN 175301-803-A (included in the scope of delivery)

### Configurable options

P-Pressure range



## Testo Sensor GmbH

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Please find our whole temperature probe and transmitter portfolio in our webshop at: [www.testo-sensor.shop](http://www.testo-sensor.shop)

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Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683

Ambient conditions	
Storage temperature	-50 °C to +100 °C
Ambient temperature	-30 °C to +85 °C
Medium	liquid and gaseous
Medium temperature	-15 °C to +125 °C
Long-term stability	± 0.25% of full scale/year

Certifications / Standards	
Protection class	III (according to EN 60 730)
Protection type	IP 65 according to EN 60 529
Standards	CE conformity, according to EMC Directive 2014/ 30/ EU
Tests	Drinking water approval according to NSF/ANSI 61/372, UL certified according to ANSI/UL 61010-1
Shock acc. to IEC 68-2-27	100 g, 11 ms, half sine wave, all 6 directions, free fall from 1 m onto concrete (6x)
Continuous shock acc. to IEC 68-2-29	40 g over 6 ms, 1000x all 3 directions
Vibration acc. to IEC 68-2-6	20 g, 15 to 2000 Hu, 15 to 25 Hz with amplitude ± 15 mm, 1 octave/minute all 3 directions, 50 continuous loads

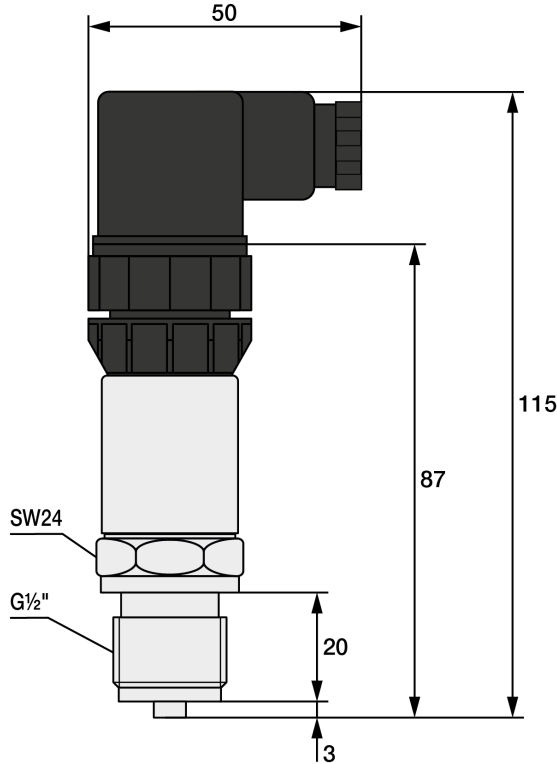
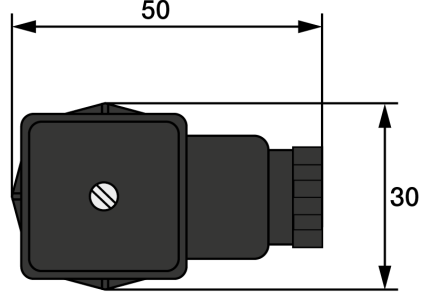
Delivery and Packing	
Delivery	Transmitter, Operating instructions
Packing	individually packed in cardboard box

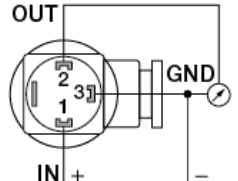
Your order code	P - Pressure range		
Article number	Pressure range	code	Pressure range
801513 3033	P_____	P0060	0 bar to 6 bar
		P0100	0 bar to 10 bar
		P0160	0 bar to 16 bar

MW / KC 22.09.2025

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Technical drawing	Top view
	 <p data-bbox="805 627 1125 660"><b>Important assembly instructions</b></p> <p data-bbox="805 772 1428 918">Installation is carried out by screwing the transmitter directly into the pressure line via the G1/2" process connection. The electrical connection is conveniently and quickly made using the DIN plug connector supplied, which ensures simple and safe commissioning. Before commissioning, check the pressure and electrical connections for leaks and correct connection.</p> <p data-bbox="1252 1030 1452 1064" style="text-align: right;">All dimensions in mm</p>

Circuit diagrams and assignment (Please also read the operating instructions before connecting the transmitter)	
Schaltbild	Assignment
	<p data-bbox="805 1176 1125 1209">1 = Supply voltage UB+ 24V AC/DC</p> <p data-bbox="805 1209 1053 1243">2 = Output pressure 0-10 V</p> <p data-bbox="805 1243 893 1276">3 = GND</p>

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