



# STANDARD PRESSURE TRANSDUCERS DS1/40

COMPETENCE IN MEASUREMENT ENGINEERING



**PAULWEGENER**  
MESSTECHNIK SEIT 1921

# TECHNICAL DATA SHEET PRESSURE TRANSDUCERS

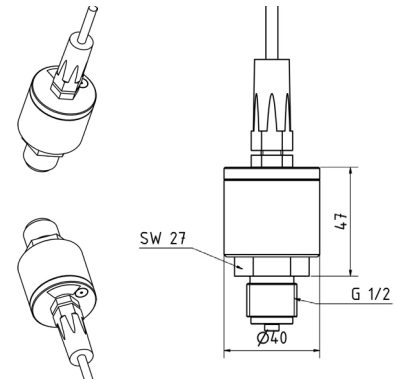
## Standard transducers type DS 1/40 (rel.)

The pressure transducer PWB-DS 1/40 is designed for connection to the performance data acquisition system PWBlog. It converts the supply pressure into a pressure-proportional output signal of 0,5...4,5 V. The capacitive ceramic pressure transducer distinguishes itself by high overload resistance, corrosion resistance and long-term stability.

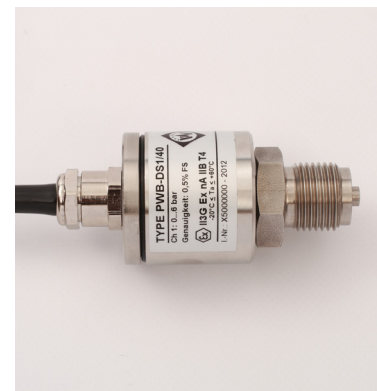
This transducer is available for relative pressure effective ranges of 0...50 mbar up to 0...70 bar and for absolute pressure effective ranges of 0...200 mbar up to 0...70 bar. Pressure equalization of relative pressure transducers is done by a small hole and a pressure equalization element at the closing lid.

### Technical specifications

Body material	rustproof steel
Body protection degree	IP67 subject to DIN EN 60529
Auxiliary energy	5,0 V, stabilised
Output signal	0,5...4,5 V
Compensated temperature range	-20 °C...80 °C
Storage temperature range	-40 °C...125 °C
Process fitting	G 1/2 A (further ones on request)
Medium touching materials	Al2O3, viton, X5CrNi18.10, X10CRNiS18.9



available measurement ranges	maximum overload	available measurement accuracy
-1... 0 bar	10 bar	1,0 % 0,5 % 0,2 %
0... 50 mbar	-0,2; 2 bar	1,0 % 0,5 % 0,2 %
0... 100 mbar	-0,3; 4 bar	1,0 % 0,5 % 0,2 %
0... 160 mbar	6 bar	1,0 % 0,5 %
0... 200 mbar	6 bar	1,0 % 0,5 % 0,2 %
0... 250 mbar	6 bar	1,0 % 0,5 %
0... 400 mbar	6 bar	1,0 % 0,5 % 0,2 %
0... 500 mbar	6 bar	1,0 % 0,5 % 0,2 %
0... 600 mbar	10 bar	1,0 % 0,5 %
0... 1000 mbar	10 bar	1,0 % 0,5 % 0,2 %
0... 1,6 bar	18 bar	1,0 % 0,5 %
0... 2 bar	18 bar	1,0 % 0,5 % 0,2 %
0... 4 bar	25 bar	1,0 % 0,5 % 0,2 %
0... 6 bar	40 bar	1,0 % 0,5 % 0,2 %
0... 10 bar	40 bar	1,0 % 0,5 % 0,2 %
0... 16 bar	40 bar	1,0 % 0,5 % 0,2 %
0... 20 bar	40 bar	1,0 % 0,5 % 0,2 %
0... 25 bar	60 bar	1,0 % 0,5 % 0,2 %
0... 40 bar	60 bar	1,0 % 0,5 % 0,2 %
0... 70 bar	105 bar	1,0 % 0,5 % 0,2 %



Händlerstempel



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