



DG/H

Pressure Transducer for Differential Pressure

Measuring size: pressure

Output: 0-10 V, 4-20 mA, NOC

Highlights: 2 measurement ranges per version



Description

The DG/H differential pressure transducer measures the over, low and differential pressure between the pressure inputs and transforms it to a standardised output signal 0-10 V or 4-20 mA. The pressure probe provides 2 pressure ranges which can be adjusted alternatively by a jumper. Additionally a normally open contact (closer) is also available.

Technical Specifications

Medium	air and non-aggressive gases
Measurement range pressure	0...+/-50 Pa, 0...25 Pa, 0...50 Pa, 0...100 Pa, 0...250 Pa, 0...500 Pa, 0...1 kPa, 0...2,5 kPa, 0...5 kPa, 0...10 kPa, 0...25 kPa, 0...50 kPa, 0...100 kPa, 0...250 kPa
Accuracy	±1,5% FS
Response time (t90)	100 ms or 1 s, adjustable by jumper
Linearity inaccuracy	±1,0% final value
Position dependence	< ±0,02% final value/g
Long term stability	< ±0,5% FS/year
Zero-point adjustment	manu: The zero-point adjustment of the output signal can be made by pushing the M-Button in depressurized state. auto: The pressure transducer runs at regular intervals an automatic zero-point adjustment. Thus, the drift behavior is dramatically improved and maintenance effort will be minimized.
Supply voltage	24 V AC/DC
Current consumption at 0-10 V	typ. 10 mA
Current consumption at 4-20 mA	max. 20 mA / output
Analogue output 0-10 V	3-wire connection
Analogue output 4-20 mA	3-wire connection
Alarm output	normally open contact (closer), NPN, 100 mA maximal, < 35 V DC
Electrical connection	screw terminals max. 1,5 mm ²
Housing	switch housing with process connection P2 of ABS, light grey, connection part with process connection P1 of POM, white
Cable gland	M16x1,5 high-strength cable gland with strain relief
Display	optional LED-Display (red), to display the measured values on location



Weight	145 g
Protection type	IP54
Protection class	III
Working range r.H.	0...95% r.H. in contaminant-free, non-condensing air
Working temperature	0...+50°C
Storage temperature	-10...+70°C
Accessories	connection set (1 x PVC-hose 2 m, 2 x duct connection nipple incl. screws) in scope of delivery
Installation	Housing: screw fastening, Pressure connection: 2 plastic duct connecting nipple with fastening screws and 2 m PVC tube Ø 6 mm (in scope of delivery)
Installation position	any
Approvals	CE, EAC, RoHS

Variants

Article Number			
Pressure	Zero-point adjustment	Output pressure	Version
DG/H-01			
0...+/-50 Pa	auto	0-10 V / 4-20 mA	without display
DG/H-01D			
0...+/-50 Pa	auto	0-10 V / 4-20 mA	with display
DG/H-05			
0...25 Pa, 0...50 Pa	auto	0-10 V / 4-20 mA	without display
DG/H-05D			
0...25 Pa, 0...50 Pa	auto	0-10 V / 4-20 mA	with display
DG/H-10			
0...100 Pa, 0...250 Pa	manu	0-10 V / 4-20 mA / normally open contact	without display
DG/H-10D			
0...100 Pa, 0...250 Pa	manu	0-10 V / 4-20 mA / normally open contact	with display
DG/H-20			
0...250 Pa, 0...500 Pa	manu	0-10 V / 4-20 mA / normally open contact	without display
DG/H-20D			
0...250 Pa, 0...500 Pa	manu	0-10 V / 4-20 mA / normally open contact	with display
DG/H-30			
0...500 Pa, 0...1000 Pa	manu	0-10 V / 4-20 mA / normally open contact	without display



Article Number			
Pressure	Zero-point adjustment	Output pressure	Version
DG/H-30D			
0...500 Pa, 0...1000 Pa	manu	0-10 V / 4-20 mA / normally open contact	with display
DG/H-40			
0...1 kPa, 0...2,5 kPa	manu	0-10 V / 4-20 mA / normally open contact	without display
DG/H-40D			
0...1 kPa, 0...2,5 kPa	manu	0-10 V / 4-20 mA / normally open contact	with display
DG/H-50			
0...5 kPa, 0...10 kPa	manu	0-10 V / 4-20 mA / normally open contact	without display
DG/H-50D			
0...5 kPa, 0...10 kPa	manu	0-10 V / 4-20 mA / normally open contact	with display
DG/H-60			
0...25 kPa, 0...50 kPa	manu	0-10 V / 4-20 mA / normally open contact	without display
DG/H-60D			
0...25 kPa, 0...50 kPa	manu	0-10 V / 4-20 mA / normally open contact	with display
DG/H-70			
0...100 kPa, 0...250 kPa	manu	0-10 V / 4-20 mA / normally open contact	without display
DG/H-70D			
0...100 kPa, 0...250 kPa	manu	0-10 V / 4-20 mA / normally open contact	with display



Accessories



SAS/D
Hose connection set



motrona AX350
AX350: touchMATRIX® Process Indicator with two 16 bit Analog Inputs



motrona AX020
AX020: Process Indicator for Analog Signals



Dimensional Drawing

