



DigiPress 100

DIGITAL LOW PRESSURE GAUGE

Model No.: DI100

The **Digipress 100** electronic pressure gauge measures over-pressure, vacuum, difference- and absolute pressure and velocity of flow in both air and non aggressive gases. These measuring values are directed to a 0-10 V analogue output and displayed on a 3.5-digit LED with a figure height of 14.2 mm.



Standard Features:

Operating Temperature	-20 to +50 °C
Media	air and all non-aggressive gases
Power supply	15-30 VDC, 24 VAC or 230 VAC (± 10 %)
Output signals	analogue output: 0-10 V load: RL >= 2 kW
Connections	
Electrical	7-pole 0.14 - 1.5 mm ² clamp connection
Pneumatic	2 x 4 / 6mm Ø tube connections
Weight	? 380 g
Environmental protection	IP 54 (front)

Applications:

- ▶ control of air-blowers
- ▶ supervision of air-filters
- ▶ mechanical and system engineering
- ▶ environmental technology
- ▶ liquid level control
- ▶ pressure control in cleanrooms or spray chambers
- ▶ medical engineering

With its piezoresistive cells the DI100 achieves high reliability and accuracy. The aluminium housing has a high mechanical stability and good EMC properties. The unit is suitable for installation into a control switchboard. An LED on the front warns the user of any pressure overload. An individual calibration certificate is despatched with every pressure gauge.

Differential Pressure

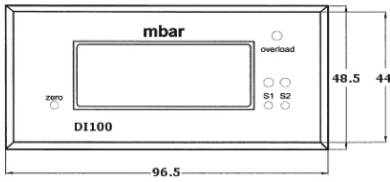
pressure range [mbar]	pressure range [kPa]	max. over-pressure [mbar]	linear error max. [± % F.S.]	max. temp. error [± % F.S.] 0-50 °C	long-term stability [± % F.S.]	repeat-precision [± % F.S.]	response time
0-1	0 - 0.1	250	1	4	2	1	100
0 - 2.5	0 - 0.25	250	0.8	2	2	0.3	100
0 - 5	0 - 0.5	250	0.8	1	1	0.3	100
0 - 10	0 - 1	250	0.8	1	0.5	0.2	100
0 - 25	0 - 2.5	350	0.7	1	0.1	0.1	100
0 - 50	0 - 5	350	0.7	1	0.1	0.1	100
0 - 100	0 - 10	350	0.5	1	0.1	0.1	100
0 - 1000	0 - 100	X 3	0.5	1	0.1	0.1	100
0 - 1999	0 - 200	X 2	0.5	1	0.1	0.1	100
0 -10 bar	0 - 1000	X 1.2	0.8	1	0.1	0.1	100

Absolute Pressure

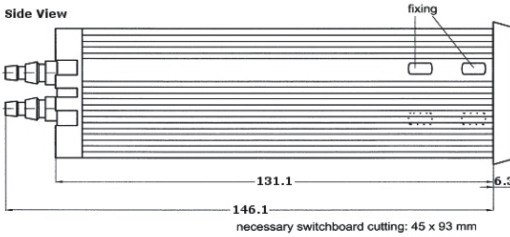
700-1100	70 - 110	triple	± 0.9 mbar	2.3 mbar	0.1	0.1	100
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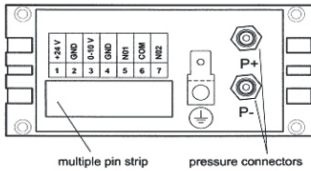
Front Plate



Side View



Back



Options

Twin switch outputs with LED for each	
Loadability	max. 230 VAC 1A
Switch Hysteresis	ca. 2 % F.S.D.
Transmitter	
Output	4-20 mA
Max. Resistance	Rb >= 20 ... 100 ?
RS 232 - interface	
Data Format	8 bit - 0 - 1 stop-bit
Baud Rate	9600 bps
Handshake	xon / xoff
Square root output (for flow velocity)	
Analogue Output	0-10 V
Electronic Damping	
Output	0-10V or 4-20 mA



ORDERING MATRIX ~ DI100

Locate the order code for your specification and enter it into the appropriate box. See the above tables and the pressure codes reference section in the introduction for more details. Please note that some options may not be available with all models.

PRESSURE RANGE (mBAR)

1: 0 - 1 **5:** 0 - 25 **9:** 0 - 1999
2: 0 - 2.5 **6:** 0 - 50 **10:** 0 - 10 bar
3: 0 - 5 **7:** 0 - 100 **11:** 700-1100
4: 0 - 10 **8:** 0 - 1000

QUANTITY

TRANSMITTER

0: No
1: Yes

RS232

N: no
Y: yes

SWITCHES

A: Single
B: Twin

SQUARE ROOT OUTPUT

A: No
B: Yes

ELECTRONIC DAMPING

0: No
1: Yes

MODEL NO.

DI100