Measurement range

<table>
<thead>
<tr>
<th>Measurement range</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>±200 Pa (±2 mbar)</td>
<td>0</td>
</tr>
<tr>
<td>±2 kPa (±20 mbar)</td>
<td>1</td>
</tr>
<tr>
<td>±20 kPa (±200 mbar)</td>
<td>10</td>
</tr>
<tr>
<td>±200 kPa (±2000 mbar)</td>
<td>100</td>
</tr>
</tbody>
</table>

Features

- High-end pressure gauge for differential pressure and flow measurements
- Adjustable pitot factor and density
- Zero-point correction at the push of a button
- Min./max. value memory
- Temperature measurement

Order code

EMA 200 -

DAkkS calibration certificate (ger/eng) 9601.0003
ISO factory calibration certificate (ger/eng) 9601.0002

Connection diagram

- Analog output 3.5 mm jack plug
- Pneumatic ports
- Zero-point correction
- Select values and parameters
- Select decimal places

Zero-point correction performed electronically by pressing zero-point key

Margin of error

<table>
<thead>
<tr>
<th>Margin of error</th>
<th>±0.5% FS at 22°C</th>
</tr>
</thead>
</table>

Temp.-dependent drift

| ±0.04% C FS |

Temp.-dependent drift

| ±0.04% C FS (for gradual changes in temperature) |

Overload capacity

| 10 x for measurement ranges ≤ 10 kPa |
| 2 x for measurement ranges > 10 kPa |
| 1.2 x in the 200 kPa measurement range |

Calculation of air speed (in m/s)

\[ v = \text{pitot factor} \times \sqrt{\frac{2 \times \Delta p}{\text{air density}}} \]

Δp = differential pressure at the pitot tube [Pa] with telescoping pitot tube, see p. 27

Zero-point correction

formed electronically by pressing zero-point key

Medium

air, all non-aggressive gases

Analog output

0.2 V (R \(_L\) ≥ 2 kΩ) for negative and positive measurement ranges

Display

3½ digit LCD, character height = 10 mm

Time constants

1...10 s

Operating temperature

0...50°C

Storage temperature

-10...70°C

Power supply

9 V battery (service life approx. 100 h)

(3.5 mm jack plug)

Weight

approx. 0.4 kg

Pressure ports

for tubing NW 4 or 6 mm

Certificates

CE

Order code

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ISO factory calibration certificate (ger/eng) 9601.0002

Data sheet EMA 200 – Date: 01/2020 – Subject to technical changes without notice
After the start-up of an air-conditioning system or cleanroom, or during maintenance or validation work, it is necessary to monitor a large number of pressure values. It is therefore essential to measure and record the following values accurately:

- ventilator pressure
- pressure drop at power units and filters
- overpressure in the cleanroom
- flow in the air duct and rooms

The EMA range of hand-held pressure gauges has been optimised for long-term use in building services engineering and industrial applications. They are rugged and simple to operate.