Service intended
Measurement of absolute pressure excluding the effect of barometric pressure variation.
Suitable for all clean and dry gaseous media that will not attack copper alloy and aluminium parts.

Design
Small compact design, varied possibility for installation, WIKA trade pattern DT-GM 87 10 226
Variable pressure entry

Nominal size
80 mm

Accuracy class per EN 837-3 /6
1.6

Scale ranges per EN 837-3 /5
0 ... 16 to 0 ... 1000 mbar absolute pressure

Working pressure
Steady: full scale value
Fluctuating: 0.9 x full scale value

Overpressure safety
1 bar absolute (atmospheric pressure) with all scale ranges

Operating temperature
Ambient: -20 ... +60 °C
Medium: +70 °C maximum

Temperature error
Additional error when temperature of the pressure element deviates from +20 °C
Rising temperature: +0.3%/10 K of true scale value
Falling temperature: -0.3%/10 K of true scale value

Degree of protection
IP 66 per EN 60 529 / IEC 529

Standard features
Pressure connection (exposed to pressure medium)
Threaded entry per EN 837-1 /7.3
G E female

Pressure element (exposed to pressure medium)
Material Cu-alloy
The pressure element is evacuated and constitutes pressure datum

Movement (exposed to pressure medium)
Material: Cu-alloy

Dial (exposed to pressure medium)
White aluminium with black lettering

Pointer (exposed to pressure medium)
Black aluminium pointer

Zero adjustment
Adjusting provisions at case back

Case (exposed to pressure medium)
Black aluminium. Case retains process pressure

Window (exposed to pressure medium)
Instrument glass

Sealing rings (exposed to pressure medium)
NBR (Buna rubber)

Bezel ring
Black aluminium

Gauge mounting
Requires mounting by means of rigid tailpipes, optionally threaded studs at case back.
Panel mounting or surface mounting rings optionally available

Optional extras
- Other pressure connection
- Mounting studs with bracket
- Panel mounting ring
- Surface mounting ring
- Male thread pressure entry
- Pressure entry with miniature flange DN 10/16 to DIN 28 403
- Radial pressure entry other than bottom

Operating principle
• The case machined from solid aluminium bar retains the system pressure, whereas the pressure element of either the capsule or the bourdon tube type constitutes the zero pressure datum.

• The particularly shaped capsule fully collapses to provide over-pressure safety independent of the scale range.

• Any pressure applied is measured against the sealed pressure datum to exclude the effect of ambient pressure variation.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

**Dimensions**

**Standard version**

Bottom pressure entry

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
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<tbody>
<tr>
<td>1035 193</td>
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Back pressure entry

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<td>1035 207</td>
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**Optional extras**

3-hole panel mounting bezel with fixing clamp

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Surface mounting flange

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Narrow panel mounting bezel with fixing clamp

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Miniature flange connection

DN 10/16 DIN 28 403

Bottom entry

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Back entry

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</table>

**Weight**

| Typ 516.11 | 0.48 |

Standard pressure entry with parallel thread and seating to EN 837-3 / 7.3.

**Ordering information**

State:
Model / Nominal size / Scale range / Size and location of connection / Optional extras required

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WIKA Alexander Wiegand GmbH & Co. KG
Alexander-Wiegand-Straße · 63911 Klingenberg / Germany
Phone: (+49) 93 72 / 132-0 · Fax: (+49) 93 72 / 132-406
http://www.wika.de · E-mail: info@wika.de