## Precision digital pressure gauge **DIM 30**

- ■Accuracy ≤ ±0.05 % at 400 mbar and higher
- Suitable for on-site calibration or pressure transducers
- Graphical LC display
- Data logger function

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Application For mobile electronic pressure measurement with high demands in terms of accuracy and long-term stability in process engineering as well as mechanical and plant engineering applications. Suitable for monitoring pressure and temperature behaviour as well as on-site calibration of pressure transducers.

Description The battery-operated digital pressure gauge DIM 30 consists of two devices - the digital display with a graphical LC display and a pressure transducer with a piezo-resistive stainless steel sensor. The pressure transducer can be replaced without tools and without calibration for other measurement tasks. The integrated data logger can record pressure and temperature values linearly and cyclically. These measured values can be analysed with the enclosed PC evaluation software.

### **Technical** Display

#### specifications Backlit graphical LC display, visible area 55 x 46 mm Indication of measured values max. 7 digits Temperature indication, time, 100-segment bar chart potential input value, languages German/ English

Duration and intensity of backlight adjustable Switchable pressure units: bar, mbar, hPa, kPa, MPa, psi, inHg, cmHg, mmHg, inH<sub>2</sub>O, mmH<sub>2</sub>O, mH<sub>2</sub>O, kg/cm<sup>2</sup> Temperature indication: Measuring ranges -10 / +55 °C

Resolution 0.1 °C Accuracy ±2 K

#### **Data logger**

Stores pressure values and sensor temperature (sec., min., hour, daily at an adjusted time) max. 600,000 values Adjustable measurement interval

#### Zero adjustment

From the front via keypad

#### Supply voltage

3 x 1.5 V, battery AA (LR6) Battery service life Standard mode: > 2,000 h Standby mode: At least 5 years

#### **Current input**

Without backlight: Approx. 1.3 mA With backlight: Approx. 16 mA (depends on adjusted intensity) In standby mode: Approx. 1.2 µA

#### Housing:

Stainless steel 304, Ø 100 mm

#### Diaphragm

Stainless steel 316 L

#### Seal

Without (weld version only for process connections as per EN 837) FKM for all other process connections

#### Wetted parts:

Pressure connection, diaphragm, seal

#### Measuring accuracy:

Deviation from the characteristic curve according to IEC 60770 - limit point calibration (non-linearity, hysteresis, repeatability) ≤± 0.05 % BFSL (measuring ranges <0.4 bar =  $\leq \pm$  0.125 % BFSL) Long-term stability ≤± 0.1 % FSO / year

#### Mounting position:

Any

Measuring ranges: 0/100 mbar to 0/600 bar PN ≥1 bar, vacuum-tight without limitation

#### **Overload safety:**

At least 3 x FS, except 40 bar, overload = 105 bar 400 bar, overload = 1,000 bar

### **Burst pressure**

At least 5 x FS, except 400 bar, burst pressure = 1,250 bar

#### DG: H, PG: 4

Accessories	Part no.	Price €
Service case with foam inlay, no content	33406	
Protective cap, rubber, blue NG 100	33407	
Manual calibration pump	33408	

Blue part no. = in-stock items



# Precision digital pressure gauge DIM 30

specifications Media

<b>Technical</b>	Operating	temperature range
cifications	Medium:	-10/+55 °C
	Ambient:	-10/+55 °C
	Storage:	-20/+70 °C
	-	

**Process connection** G1/2B, (EN 837-1/7.3)

#### Degree of protection IP 67 (EN 60529)

**CE** conformity

EMC Directive 2014/30/EU RoHs Directive 2011/65/EU PED 2014/68/EU (module A)\* \* Applies to devices with a maximum permissible overpressure of > 200 bar only

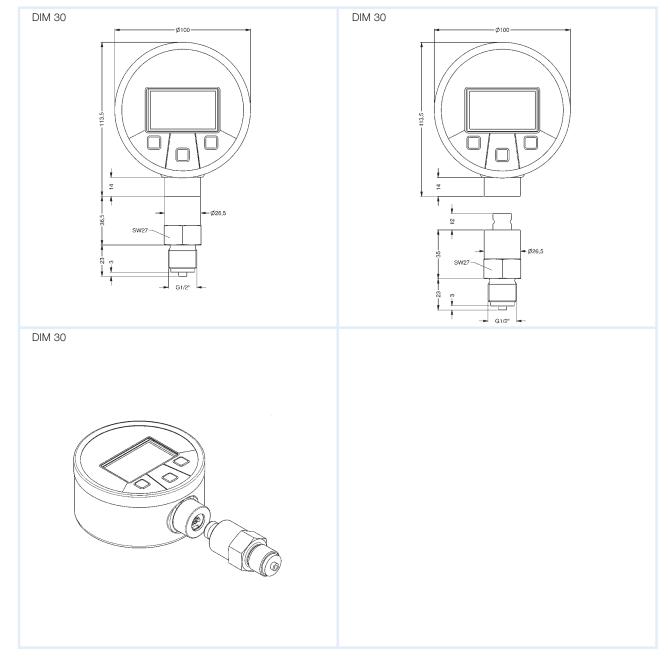
### Scope of delivery

- DIM 30
- Batteries
- PC connection cable
- Evaluation software on CD-ROM

#### Options

Other process connections

Dimensions (mm) and electrical connections





# Precision digital pressure gauge DIM 30

Ordering data			DG: H, PG: 4	Price €
1 Precision digita	l pressure gauge DIM 30			
33406 DIM 3	0			
2 Pressure ty				
R Relativ				
A Absolu	ute (possible for 0.4 bar and higher)			
3 Measur	ing range in bar			
100 -	1/0			
102 -	1/+1.5			
103 -	1/+3			
104 -	1/+5			
<b>007</b> 0	/0.10			
<b>008</b> 0	/0.16			
<b>009</b> 0				
<b>010</b> 0				
<b>108</b> 0				
<b>109</b> 0				
<b>110</b> 0				
<b>111</b> 0				
<b>112</b> 0				
<b>113</b> 0				
<b>114</b> 0				
<b>115</b> 0				
<b>116</b> 0				
<b>117</b> 0				
<b>118</b> 0				
<b>119</b> 0				
<b>120</b> 0				
<b>121</b> 0				
<b>122</b> 0				
<b>123</b> 0	/600			
4	Process connection			
	<b>01</b> G ½B (DIN 3852)			
	<b>02</b> G ½B (EN 837-1)			
	<b>03</b> G ¼B (DIN 3852)			
	<b>04</b> G ¼B (EN 837-1)			
	<b>05</b> ½-14 NPT			
	06 ¼-18 NPT			
	5 Seal			
	1 FKM			
	9 Others			On request
	<b>C</b> Childre			onroquoor
Ordening				
Ordering code Example: 0/10 bar, 0	3 <b>3406</b>	R 114	02 1	

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