

# Series PG digital pressure gauges

Possibility of a direct mounting with rear or panel connection

SERIES PG DIGITAL PRESSURE GAUGES



- » Pressure unit on display
- » Battery-powered / with cable
- » Easy and fast read out with digital display
- » 4 user programmable pressure units available
- » Power saving mode
- » Back light
- » Dust-proof and splash-proof (IP65 protection class)

The new Series PG digital pressure gauges meet the need of an even more precise pressure adjustment, above all in proportional control. Thanks to the IP65 protection class these pressure gauges are particularly suitable for applications where the highest environmental protection is required.

## TECHNICAL DATA

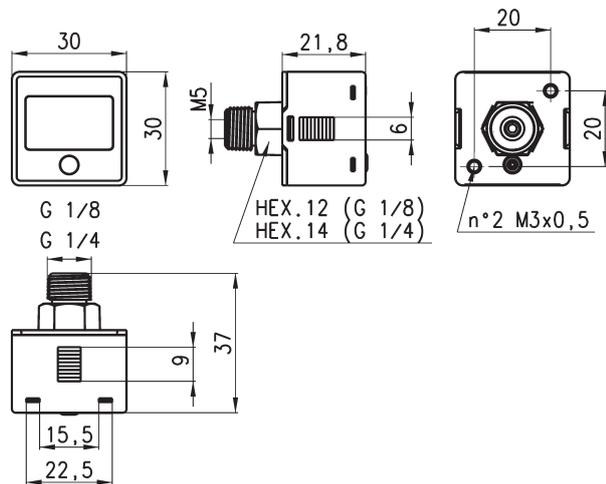
| CHARACTERISTICS   |  |   |
|---|--|---|
|   | Vacuum<br>PG...-VB...  | Pressure<br>PG...-PB...   |
| Pressure units  | psi, bar, mmHg, kPa<br>programmable by the user  | psi, bar, kgf/cm <sup>2</sup> , MPa<br>programmable by the user |
| Rated pressure range                                    | 0 ÷ -1 bar   | 0 ÷ 10 bar  |
| Display pressure range                                  | 0.1 ÷ -1 bar   | -0.1 ÷ 10 bar   |
| Withstand pressure                                      | 3 bar  | 15 bar  |
| Repeatability   | ≤ ± 1% F.S. ± 1 digit  | ≤ ± 0,2% F.S. ± 1 digit   |
| Resolution: kPa   | 1  | -   |
| MPa   | -  | 0.001   |
| kgf/cm <sup>2</sup>                                     | 0.01   | 0.01  |
| bar   | 0.01   | 0.01  |
| psi   | 0.1  | 0.1   |
| Indicator accuracy                                      | ≤ ± 2% F.S. ± 1 digit (ambient temperature: 25 ± 3°C)  |   |
| Medium  | Filtered air, incombustible and non-corrosive gases  |   |
| Back light  | Yes  |   |
| Sample rate   | 2 Hz (2 times/second)  |   |
| LCD display   | 3 ½ digit, 7 segment   |   |
| Environment: Protection class                           | IP65 (an air tube must be installed to maintain this grade)  |   |
| Temperature   | Operation: 0 ÷ 50°C<br>Storage: -10 ÷ 60°C<br>(no condensation or freezing)                                  |   |
| Relative humidity                                       | Operation/storage: 35 ÷ 85% RH<br>(no condensation)  |   |
| Vibrations  | Total amplitude 1.5mm or 10G<br>10Hz-55Hz-10Hz scan for 1 minute<br>2 hours for each direction of X, Y and Z |   |
| Shock   | 100 m/s <sup>2</sup> (10G)<br>3 times for each direction of X, Y and Z                                       |   |
| Changes due to temperature                              | ≤ ± 2% F.S. of detected pressure (25°C) within the operating temperature range                               |   |
| Pneumatic connections ports                             | G1/4 - M5 or G1/8 - M5   |   |
| <b>FOR BATTERY-POWERED PRESSURE GAUGES ONLY</b>         |  |   |
| Battery: Type   | CR 2032 lithium  |   |
| Life  | 1 year (5 times/day)   |   |
| Low-power indicator                                     | Yes  |   |
| Replacement   | Yes  |   |
| Turn-on interval  | Display turns off after 60 seconds   |   |
| <b>FOR PRESSURE GAUGES WITH POWER SUPPLY CABLE ONLY</b> |  |   |
| Supply voltage  | from 12 to 28 V DC ± 10% Ripple  |   |
| Power consumption                                       | 10 mA  |   |
| Maximum voltage   | 1000V AC in 1-min (between the casing and the cables)  |   |
| Isolation resistance                                    | 50 Mohm min (at 500 V DC, between the casing and the cables)   |   |
| Electrical connection: for pressure gauges PG...-2      | Unshielded 2-pole cable, length 2 m  |   |
| for pressure gauges PG...-M                             | Connection with M8 4-pole connector  |   |

**CODING EXAMPLE**

|            |   |          |          |          |          |            |          |          |
|------------|---|----------|----------|----------|----------|------------|----------|----------|
| <b>PG</b>  | <b>010</b>  | <b>-</b> | <b>P</b> | <b>B</b> | <b>-</b> | <b>1/8</b> | <b>-</b> | <b>2</b> |
| <b>PG</b>  | SERIES  |          |          |          |          |            |          |          |
| <b>010</b> | BOTTOM SCALE:<br>010 = 10 bar<br>001 = -1 bar   |          |          |          |          |            |          |          |
| <b>P</b>   | PRESSURE RANGE:<br>P = pressure<br>V = vacuum   |          |          |          |          |            |          |          |
| <b>B</b>   | LIGHTING:<br>B = back light   |          |          |          |          |            |          |          |
| <b>1/8</b> | PNEUMATIC CONNECTIONS:<br>1/8 = G 1/8 BSPP; M5<br>1/4 = G 1/4 BSPP; M5 (for battery-powered version only)   |          |          |          |          |            |          |          |
| <b>2</b>   | ELECTRICAL CONNECTION (for version with cable only):<br>2 = with unshielded 2-pole cable of 2 m<br>M = with cable of 150 mm and M8 4-pole connector |          |          |          |          |            |          |          |

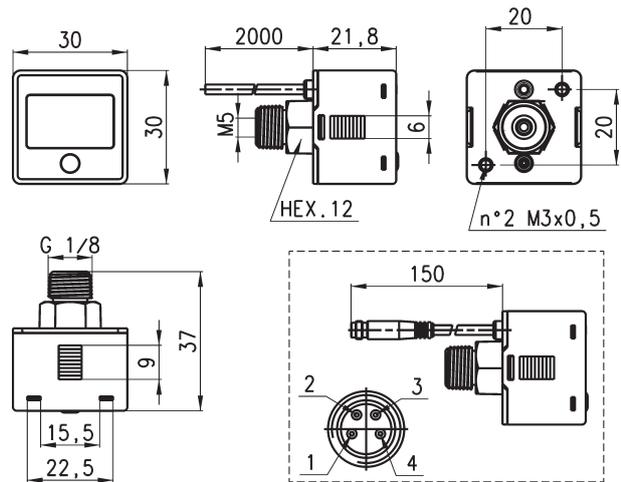
SERIES PG DIGITAL PRESSURE GAUGES

**Series PG digital pressure gauges - battery-powered**



|              |
|--------------|
| Mod.         |
| PG010-PB-1/8 |
| PG001-VB-1/8 |
| PG010-PB-1/4 |
| PG001-VB-1/4 |

## Series PG digital pressure gauges - with cable

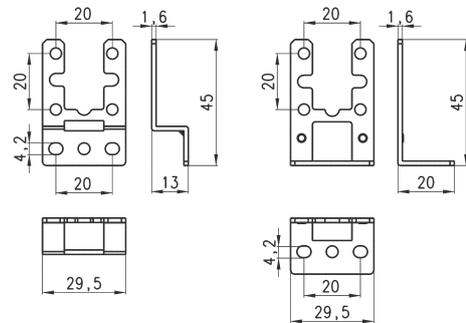


|                |
|----------------|
| Mod.           |
| PG010-PB-1/8-2 |
| PG001-VB-1/8-2 |
| PG010-PB-1/8-M |
| PG001-VB-1/8-M |

## Mounting brackets Mod. PG-B



Supplied with:  
 1x bracket type A  
 1x bracket type B  
 2x screws M3x6

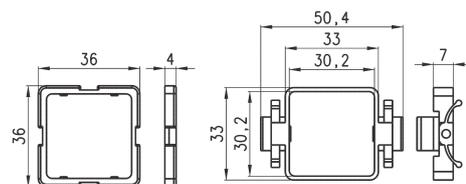


|      |
|------|
| Mod. |
| PG-B |

## Panel mounting adapter Mod. PG-F



Supplied with:  
 1x adapter type A  
 1x adapter type B



|      |
|------|
| Mod. |
| PG-F |