



# IBAR 05P

## Battery Powered Digital Pressure Gauge

### Stainless Steel Diaphragm Flush Welded

class 0.25

Digital Pressure Gauge

IBAR 05P

#### **Nominal pressure**

- ▶ from 0 ... 60 bar  
up to 0 ... 400 bar

#### **Product characteristics**

- ▶ rotatable housing
- ▶ 2-line LC display  
4.5-digit 7-segment display  
6-digit 14-segment additional display
- ▶ for viscous and pasty media

#### **Functions**

- ▶ min / max function with  
reset function
- ▶ offset and end point calibration
- ▶ setting the pressure unit
- ▶ switch-off automatic configuration



The battery-powered digital pressure gauge IBAR 05P with flush welded stainless steel diaphragm enables a local displaying of values in applications, where high requirements on hygienic process connections and easy cleaning or sterility are requested. The filling medium is food compatible oil with FDA approval.

The *IBAR 05P* display housing is rotatable, thus ensuring an easy reading even under unfavorable mounting conditions.

Additional functions as changing unit, displaying min / max values, calibrating of offset and span, as well as configuring the automatic switching-off complete the profile.

#### **Preferred areas of use are**



Plant and Machine Engineering

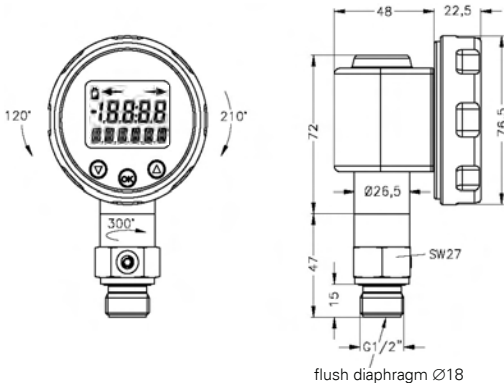
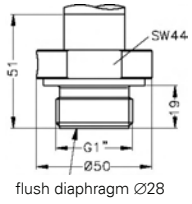


Food Industry

# IBAR 05P

## Digital Pressure Gauge

## Technical Data

Input pressure range	
Nominal pressure gauge [bar]	60      100      160      250      400
Nominal pressure abs. [bar]	100      200      400      400      600
Overpressure [bar]	120      250      500      500      650
Performance	
Accuracy <sup>1</sup>	≤ ± 0.25 % FSO BFSL
Measuring rate	5/sec
<sup>1</sup> accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)	
Thermal effects (Offset and Span)	
Tolerance band [% FS]	≤ ± 0.2 % FSO / 10 K
In compensated range [°C]	0 ... 70
Permissible temperatures <sup>2</sup>	medium:                      -40 ... 125 °C for filling fluid silicon oil -10 ... 125 °C for filling fluid food compatible oil environment:                -20 ... 70 °C storage:                        -30 ... 80 °C
<sup>2</sup> max. temperature of the medium for nominal pressure gauge > 0 bar: 150 °C for 30 minutes with a max. environmental temperature of 50 °C for vacuum and nominal pressure abs. the max. medium temperature is 70 °C	
Mechanical stability	
Vibration	5 g RMS (25 ... 2000 Hz)      according to IEC 60068-2-6
Shock	100 g / 1 msec                      according to IEC 60068-2-27
Materials / Filling fluids	
Housing / Pressure port	stainless steel 1.4404 (316L)
Display housing	PA 6.6, Polycarbonate
Seals (media wetted)	FKM
Diaphragm	stainless steel 1.4435 (316L)
Media wetted parts	pressure port, seals, diaphragm
Filling fluids	standard: silicon oil food compatible oil with FDA approval (Mobil DTE FM 32; Category Code: H1; NSF Registration No.: 130662) others on request
Miscellaneous	
Display	LC-Display, visible range 40 x 30 mm; 4.5-digit 7-segment main display, digit height 11 mm, range of indication ±19999; 6-digit 14-segment additional display, digit height 7.5 mm
Electromagnetic compatibility	emission and immunity according to EN 61326
Supply	3.6 V lithium battery; 2 piece (1/2 AA)
Data storage	EEPROM (non-volatile)
Ingress protection	IP 65
Installation position	any (standard calibrating in a vertical position with the pressure connection down)
Weight	min. 350 g (depending on pressure port)
AD-converter solution	14 Bit
Operational life of battery	Standby-Modus: approx. 5 years
Mechanical operational life	> 100 x 10 <sup>6</sup> pressure cycles
CE-conformity	EMC directive: 2004/108/EC                      pressure equipment directive: 97/23/EC (Modul A) <sup>3</sup>
<sup>3</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar.	
Abmessungen (in mm)	
<b>standard</b>	<b>option</b>
 <p style="text-align: center;">G1/2" flush (DIN 3852)</p>	 <p style="text-align: center;">G1" flush (DIN 3852)</p>

