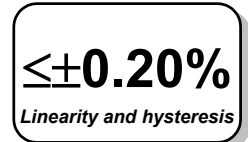
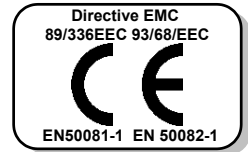


### STANDARD INDICATIONS

Pressure	Display (bar)		Resol.
	Positive	Vacuum	
1 bar	1,000	-1,000	0,001
2,5 bar	2,500	-1,000	0,001
5 bar	5,000	-1,000	0,001
10 bar	10,00		0,01
20 bar	20,00		0,01
50 bar	50,00		0,01
100 bar	100,0		0,1
250 bar	250,0		0,1
350 bar	350,0		0,1
500 bar	500,0		0,1
700 bar	700,0		0,1
1000 bar	1000		1
1500 bar	1500		1
2000 bar	2000		1

Measuring unit can be in:  
mbar / bar / psi / Mpa / kPa



**BIT02** is a microprocessor digital pressure gauge of new generation, consisting of a **long-term particularly steady analog section**, and of a 16 bits converter A/D which guarantees 65.000 internal divisions.

Pressure sensors is completely executed in stainless steel to ensure a high resistance in presence of highly dynamic stresses and to be suitable to work in contact with aggressive substances.

This features, together with the **0,20% accuracy class** make it ideal for monitoring industrial applications and to transmit data directly to the control system.

The pressure gauge has internal batteries with 1 year autonomy, which is also guaranteed by the **AUTO-POWER-OFF** function, that turns off the pressure gauge if no pressure variation is detected within 30 minutes.

The user can select different engineering units (bar, mPa, kPa, psi), and can program different resolutions and digital filter according to the application.

In order to increase the integration level of the components, a combined traditional and SMT technology has been applied; which makes the pressure gauge more resistant against mechanical stresses and vibrations and ensures the maximum reliability of the electronic circuit.

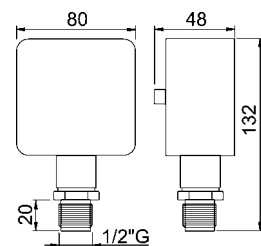
The display do also show an analog indication bar of pressure always active even in the program-menu.

### Principal performances:

- ✓ 1 YEAR AUTONOMY WITHOUT RECHARGE
- ✓ PROGRAMMABLE RESOLUTION
- ✓ DIGITAL FILTER
- ✓ PROGRAMMABLE MEASURE UNIT
- ✓ PEAK FUNCTION (positive and negative)
- ✓ RS232 OUTPUT (optional)

### Accessories:

- Manual Pump Pressure Generator (GPM)
- for compared calibrations.
- Software Utility for data acquisition and processing errors and print certificate with SIT reference.



Dimensions (mm)



DFI Indicator for Strain gauge inputs !

RELATIVE PRESSURE (R)	1 - 2.5 - 5 - 10 - 20 bar 50 - 100 - 250 - 350 - 500 - 700 bar 1000 - 1500 - 2000 bar
<b>LINEARITY and HYSTERESIS</b>	<b>≤ ± 0.20 % F.S.</b>
TEMPERATURE EFFECT 10°C a) on zero b) on sensitivity	≤ ± 0.050% ≤ ± 0.015%
POWER SUPPLY AUTONOMY ALKALINE BATTERIES	BATTERIE / BATTERY 1 ANNO / YEAR n°4 to 1,5V size AA
INTERNAL RESOLUTION PROGRAMMABLE MEASURING UNITS PROGRAMMABLE RESOLUTION PROGRAMMABLE BAUD RATE ZERO FUNCTION PEAK FUNCTION	65.000 div. *mbar, bar, MPa, kPa, psi 1, 2, 5, 10 16200, 9600, 4800 ~ 50% positive and negative
READING PER SEC. (0 filter) DISPLAY	10 (100ms) custom LCD (H=16mm)
MECHANICAL LIMIT VALUES RELATED TO NOMINAL PRESSURE : a) service pressure b) max. permissible pressure c) breaking pressure d) high dynamic pressure	100% 150% >300% 75%
REFERENCE TEMPERATURE SERVICE TEMPERATURE RANGE STORAGE TEMPERATURE	+23°C 0/+50°C -10/+60°C
STANDARD PROCESS COUPLING GASKET ADVISED TIGHTENING WRENCH TIGHTENING TORQUE PROTECTION CLASS ( DIN 40050 ) MATERIAL OF THE SENSOR MATERIAL OF THE HOUSING ELECTRICAL CONNECTION (RS232C)	1/2" Gas MASCHIO / BSP MALE USIT A 63-18 27mm 28Nm IP60 INOX 17-4 pH ABS tank SUB D 9 pole FEMALE

Other measuring units on request.

**OPTIONALS**

Bit02	SERIAL OUTPUT	RS232C
	VACUUM (V) range	(-1/+1) (-1/+2.5) (-1/+5) bar



**GPM-500:** Ideal for relative calibrations directly in field.

- Range from 0 to 500-700 bar.
- Dimensions 230 x 180 x40.
  - Weight 4,5 kg.
- In aluminium alloy and stainless steel.
  - Rotary connections with or.
    - Filled with oil.
  - Fast venting system.
  - On board tank.

Digital pressure gauge:	CODE:	<b>TBIT02RCXX1</b>	Nominal pressure		Serial output	
			1B	50B	700B	X = NO
Vacuum calibration:	CODE:	<b>TBIT02V</b>	2B5	100B	1KB	S=RS232
			5B	250B	1KB5	
			10B	350B	2KB	
			20B	500B		

In order to improve the technical performances of the product, the company reserves the right to make modifications without notice.  
BIT02 is produced by AEP transducers for NTT-transducers

