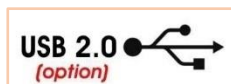
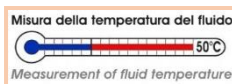


PROFESSIONAL DIGITAL PRESSURE GAUGE for PRESSURE and TEMPERATURE measurement



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

Certificato di Taratura ACCREDIA
A RICHIESTA

LAT N° 093
Calibration Centre
The products are NOT covered by accreditation

ACCREDIA Calibration Certificate
ON REQUEST

BIT2 is a professional digital pressure gauge made according to the most modern technologies to guarantee a high level of reliability, versatility and practicality at the same time.

The sturdiness and a high stability over time are guaranteed by a monolithic sensor made entirely of stainless steel capable of working even in the presence of highly dynamic pressures, and by a robust housing made of painted aluminum.

Designed to be used in metrological laboratories, calibration systems, automation in general and process controls where it is necessary to monitor, record and transmit data.

During the production cycle the pressure gauge is calibrated to guarantee a measurement uncertainty better than 0.20% in 28 different pressure ranges, **RELATIVE**, **ABSOLUTE** and in **VACUUM**.

With this instrument it is possible to simultaneously measure the **PRESSURE** generated by air, gas, oil, water or any other type of non-corrosive fluid and the **TEMPERATURE** of the fluid that generates the pressure.

The pressure gauge is powered by 2 internal non-rechargeable AAA batteries that provide approximately 1 year's autonomy.

In the programming menu accessible from the keyboard it is possible to customize the behavior of the pressure gauge by adjusting various functions such as the **DIGITAL FILTER**, which allows to keep the measurement stable even in the presence of unsteady pressures, resolution, unit of measurement, Auto power off etc ...

Using the keyboard it is possible to set the positive and negative **PEAK** function to record the maximum and minimum pressures detected during the test.

On the display there is an analogue indication with pressure bar always active even within the programming menu.

Main features:

- Normalized pressures from **100 mbar** to **3000 bar** ABSOLUTE, RELATIVE and VACUUM.
- Measurement of fluid PRESSURE and TEMPERATURE.
- Autonomy of about 1 year without recharging.
- 5-digit LCD display with backlight.
- Resolution, digital filter, conversions in units of measurement.
- Functions of ZERO, PEAK max. and min.
- KEY LOCK function **Ⓚ** to protect the use parameters from unauthorized changes.
- LOOP function switches between PRESSURE and TEMPERATURE measurements on the display.
- Analogue pressure display always active (bar graph).

OPTIONS:

- USB communication port.
- External power supply from 12Vdc to 24Vdc.
- Built-in container.
- Protective cover.
- Differential version with external pressure transducers.

DATI TECNICI

ACCURACY (linearity and hysteresis)	$\leq \pm 0,20 \% \text{ F.S.}$
ABSOLUTE PRESSURE Zero to the absolute vacuum pressure.	1 – 2.5 – 5 – 10 bar
RELATIVE PRESSURE (R) Zero at atmospheric pressure.	100 – 250 - 500 mbar 1 – 2,5 – 5 – 10 – 20 – 50 – 100 bar 250 - 350 – 500 – 700 bar 1000 – 1500 - 2000 – 2500 – 3000 bar
RELATIVE VACUUM (V) Zero at atmospheric pressure	-1 ... 1 bar -1 ... 2.5 bar -1 ... 5 bar -1 ... 10 bar -1 ... 20bar
PRESSURE UNITS	bar – mbar – psi – Mpa – kPa – kg/cm ² – mHg mmHg – mmH ₂ O – mH ₂ O
TEMPERATURE INDICATION a) Resolution b) Accuracy REFERENCE TEMPERATURE OPERATING TEMPERATURE RELATIVE UMIDITY	Unit °C - °F 0.1 °C ± 1 °C 0 ... +50 °C -10 ... +60 °C < 90 % not condensed
TEMPERATURE EFFECT (1 °C) a) on zero b) on sensitivity	$\leq \pm 0,002\%$ $\leq \pm 0,002\%$
INTERNAL RESOLUTION CONVERSIONS PER SECONDS	16 bit 10 (100ms)
DISPLAY LCD BACKLIGHT DISPLAY HEIGHT	CUSTOM 7 segment 13mm
RESOLUTION FUNCTION DIGITAL FILTER FUNCTION ZERO FUNCTION PEAK FUNCTION LOOP FUNCTION LOCK (LOC) Ⓜ	1, 2, 5, 10 from 0 to 5 100 % F.S. Positive / Negative (VACUUM) Switch between pressure and temperature To protect parameters change
POWER SUPPLY Autonomy Battery recharge	NON rechargeable batteries ~ 1 YEAR 2 x 1.5V AAA batteries
MECHANICAL LIMIT VALUES: a) service pressure b) limit pressure c) breaking pressure d) highly dynamic pressure	100% F.S. 150% F.S. >300% F.S. 75% F.S.

PROCESS COUPLING SEAL RECOMMENDED	1/2" G Male USIT A 63-18
TIGHTENING WRENCH TIGHTENING TORQUE	27 mm 28 Nm
PROTECTION CLASS (EN 60529) MATERIAL SENSOR CONTAINER MATERIAL	IP65 17-4 PH STAINLESS STEEL ALUMINUM

OPTIONS: (to be purchased separately)

USB OUTPUT TRANSMISSION TYPE TRANSMISSION MAX. RATE MAX DISTANCE PROTECTION CLASS (EN 60529)	USB 2.0 On DEMAND 10 values per second 5 m IP40
EXTERNAL POWER SUPPLY (without battery)	from 12 to 24Vdc
BUILT-IN VERSION MATERIAL PROTECTION CLASS (EN 60529) DRILLING TEMPLATE	Case for panel mounting Glass-fiber reinforced technopolymer IP65 front panel 83 x 83 mm
DIFFERENTIAL version	Combined with 2 transducers TP1 model

Supplied accessories for STANDARD version:

Operating MANUAL IT/EN

N° 2 mordant cones ONLY for high pressure gauges from 1000 bar to 3000 bar.



Accessories supplied in the BUILT-IN version:

N° 2 mounting brackets

Operating MANUAL IT/EN

N° 2 mordant cones only for high pressure gauges from 1000 bar to 3000 bar.



Accessori in dotazione per versione DIFFERENZIALE:

DIFFERENTIAL version consisting of 2 model **TP1** pressure transducers connected by a 3m cable to BIT2.

Full scale available from 10 to 700bar.

Code: **BIT2D**



Accessories: (to be purchased separately)

Impact-resistant silicone cover.

Code: **TCOVQ**



Case for transport.

Codice: **VALIGIADFIBIT**



EXTERNAL POWER SUPPLY from 220V to 12Vdc

Code: **TALDMM**

USB cable

Code: **TCAVOUSB**

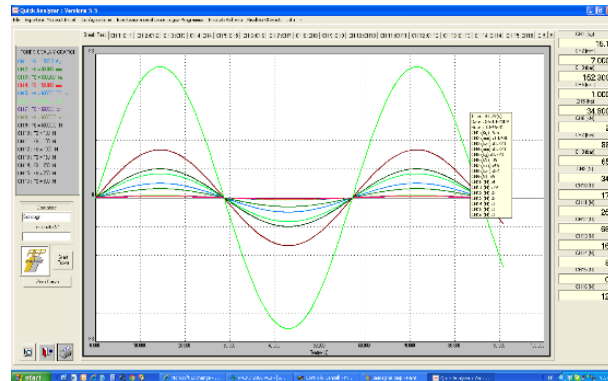


WinTEST1

Quick analyzer

Quick analyzer Light

Application software that interface directly to the pressure gauge and support the operator in the various functions of testing, analysis, time monitoring, data storage, data logger management and measurement transfer on Microsoft Excel etc ...



PressKAL

Software dedicated to the calibration and metrological confirmation of pressure gauges such as pressure gauges, transducers and pressure transmitters and pressure switches.

Calibration Report.

Code: **TRM**

ACCREDIA certificate.





Manual pressure generators used to compare the measurements between the sample manometer and the instrument being calibrated.

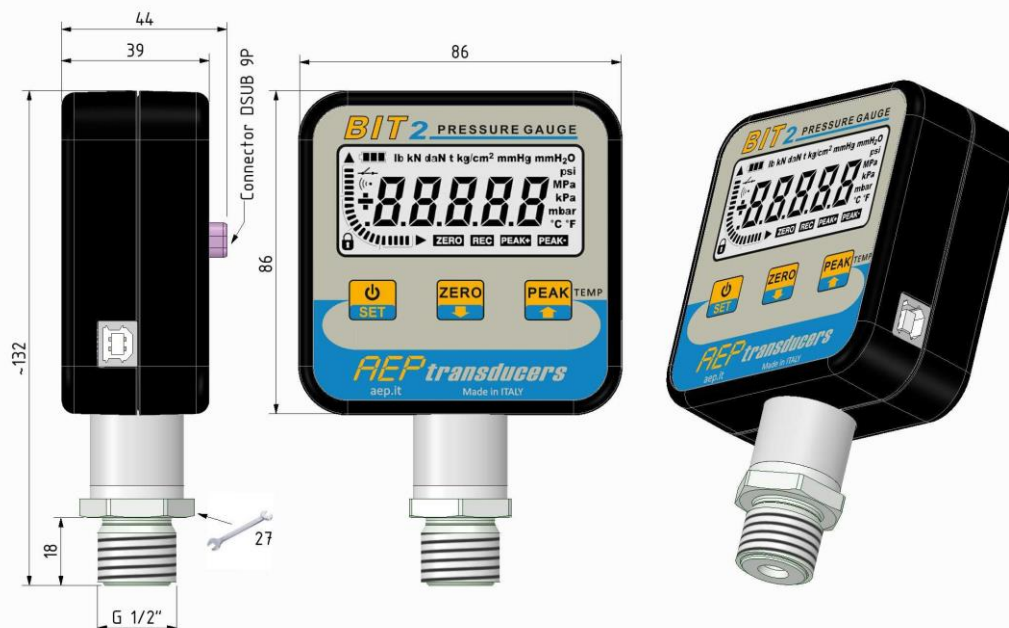
Ideal for calibrations and metrological confirmations of pressure gauges such as pressure gauges, transducers and pressure transmitters and pressure switches.

STANDARD Indications

TYPE ⁽¹⁾	Full Scale bar	Display bar	Resolution bar	Display mbar	Resolution mbar	Display psi	Resolution psi	Display MPa	Resolution MPa
RV	0,1	0,1000	0,0001	100,0	0,1	1,450	0,002	0,0100	0,0001
RV	0,25	0,2500	0,0001	250,0	0,1	3,620	0,002	0,0250	0,0001
RV	0,5	0,5000	0,0001	500,0	0,1	7,200	0,002	0,0500	0,0001
ARV	1,0	1,000	0,001	1000	1	14,50	0,02	0,1000	0,0001
ARV	2,5	2,500	0,001	2500	1	36,20	0,02	0,2500	0,0001
ARV	5	5,000	0,001	5000	1	72,50	0,02	0,5000	0,0001
ARDV	10	10,00	0,01	10000	10	145,0	0,2	1,000	0,001
RDV	20	20,00	0,01	20000	10	290,0	0,2	2,000	0,001
RD	50	50,00	0,01	50000	10	725,0	0,2	5,000	0,001
RD	100	100,0	0,1	99900	100	1450	2	10,00	0,01
RD	250	250,0	0,1	99900	100	3620	2	25,00	0,01
RD	350	350,0	0,1	99900	100	5000	2	35,00	0,01
RD	500	500,0	0,1	99900	100	7250	2	50,00	0,01
RD	700	700,0	0,1	99900	100	10000	2	70,00	0,01
R	1000	1000	1	99000	1000	14500	20	100,0	0,1
R	1500	1500	1	99000	1000	21700	20	150,0	0,1
R	2000	2000	1	99000	1000	29000	20	200,0	0,1
R	2500	2500	1	99000	1000	36250	20	250,0	0,1
R	3000	3000	1	99000	1000	43500	20	300,0	0,1

⁽¹⁾ A = Absolute R = Relative D = Differential V = Vacuum

Dimensions (mm) standard version



Dimensions (mm) built-in version



Purchasing codes

TBIT2	Full Scale			Pressure	OPTION
0B1	5B	250B	1KB5	/ = RELATIVO	U = USB
0B2	10B	350B	2KB	A = ASSOLUTA	
0B5	20B	500B	2KB5		
1B	50B	700B	3KB		
2B5	100B	1KB			

Example: **BIT2 5 0 B U**

TDMMV	Relative VACUUM version
TCINC	Built-in case
OPZALIMEST	External power supply



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In order to improve the technical performances of the product, the company reserves the right to make any change without notice.