



Description

The TEG range of digital pressure gauges provide high accuracy, resolution and stability. The robust design means that each gauge can be used in critical environments where it is necessary to measure with accuracy, reproducibility, long-term stability and protection against dust. A removable rubber cover provides increased durability and guards against damage.

Gauges are available with accuracy up to 0.02 % of full scale, with simple controls and various features for improved usability. An RS-232 port situated on the rear of the unit for software readback (EasyCal software from Time Electronics).

Applications include lab and field pressure testing when accompanied by a hand pump for pressure generation (see separate data sheets for available models). Gauges can be utilised for pneumatic or hydraulic calibration work.

Basic Specifications

Ranges	Vacuum to 2500 bar. See page 2 for available models and ranges.
Pressure Types	Gauge / Absolute / Differential / Compound.
Accuracy	0.2, 0.1, 0.05, 0.02 % FS. See page 2 for further details.
Pressure Units	Total of 11 pressure units possible: Pa, kPa MPa, Kgf/cm ² , mmH ₂ O, inH ₂ O, mmHg, inHg, PSI, mbar, bar. Some units are not enabled depending on range.
Over pressure warning	120 %
Measure speed	Display rate: 3 readings per second (default setting). Adjustable from 10 readings per second to 1 reading every ten seconds.
Display	LCD with backlight, pressure values displayed up to 5 digits with 15 mm character height and analogue dial graph 25 mm wide.
Resolution	5 digits.
Analogue dial graphic	Includes pressure swing, % indication, low/high alarm.
Peak detection	Maximum and minimum peak values can be displayed.
Ambient temperature measurement	From -10 °C to 50 °C, resolution 0.1 °C.
RS-232 Interface	DB9. EasyCal software compatible.
Pressure Port	1/4 " G BSP male, 1/2 " G BSP male (> 1000 bar). NPT & others available. 0.156 inch (4 mm) test hose for differential pressure.

Features

- Pressure ranges up to 2500 bar (37500 psi)
- Gauge, absolute, differential and compound models
- 0.02 %, 0.05 %, 0.1 % or 0.2 % FS accuracy
- Easy-to-read display with 5 digit resolution
- Unique self-protection capability technology
- 3 times per second measure speed
- Fully temperature compensated accuracy
- Long working period - low power consumption
- RS-232 interface on all models
- Removable protective rubber cover supplied

General Specifications

Environmental

Operating temperature: -10 °C to 50 °C (14 °F to 122 °F).
Compensation temperature: -10 °C to 50 °C (14 °F to 122 °F).
Storage temperature: -20 °C to 70 °C (-4 °F to 158 °F).
Relative humidity: < 95 %.

Power

Battery: 1x 9 V alkaline battery (included).
Battery life: 300 hours (10 readings/sec), 6000 hours (1 reading/10sec).
Power auto-off: 60 minutes power auto-off, can be disabled by user.
9 V 5.5 x 2.1 mm External power socket.

Materials

Case material: Aluminium alloy. Wetted parts: 316SS.

Dimensions/Weight

Display head only: 112x40 mm, Total height: 178 mm. Weight: 580 g.



Technical Specifications

Gauge Pressure (models above 70 bar = Sealed Gauge Pressure)

Media: Gas only from vac to 700 mbar. Gas or Liquid from 1 bar to 2500 bar.

Burst Pressure: Vac to 350 bar = 3x, 600 to 1000 bar = 2x, 1600 to 2500 bar = 1.5x.

Model #	Range (bar)	Range (psi)	Accuracy (% FS)			
			0.02	0.05	0.1	0.2
TEG-GVAC	-1 to 0 bar	-15 to 0 psi	0.02	0.05	0.1	0.2
TEG-G160mb	0 to 160 mbar	0 to 2 psi	-	0.05	0.1	0.2
TEG-G350mb	0 to 350 mbar	0 to 5 psi	0.02	0.05	0.1	0.2
TEG-G700mb	0 to 700 mbar	0 to 10 psi	0.02	0.05	0.1	0.2
TEG-G1b*	0 to 1 bar	0 to 15 psi	0.02	0.05	0.1	0.2
TEG-G2b*	0 to 2 bar	0 to 30 psi	0.02	0.05	0.1	0.2
TEG-G3.5b	0 to 3.5 bar	0 to 50 psi	0.02	0.05	0.1	0.2
TEG-G7b	0 to 7 bar	0 to 100 psi	0.02	0.05	0.1	0.2
TEG-G10b	0 to 10 bar	0 to 150 psi	0.02	0.05	0.1	0.2
TEG-G20b	0 to 20 bar	0 to 300 psi	0.02	0.05	0.1	0.2
TEG-G35b	0 to 35 bar	0 to 500 psi	0.02	0.05	0.1	0.2
TEG-G40b	0 to 40 bar	0 to 600 psi	0.02	0.05	0.1	0.2
TEG-G70b	0 to 70 bar	0 to 1000 psi	0.02	0.05	0.1	0.2
TEG-G100b	0 to 100 bar	0 to 1500 psi	0.02	0.05	0.1	0.2
TEG-G140b	0 to 140 bar	0 to 2000 psi	0.02	0.05	0.1	0.2
TEG-G200b	0 to 200 bar	0 to 3000 psi	0.02	0.05	0.1	0.2
TEG-G350b	0 to 350 bar	0 to 5000 psi	0.02	0.05	0.1	0.2
TEG-G600b	0 to 600 bar	0 to 8700 psi	0.02	0.05	0.1	0.2
TEG-G700b	0 to 700 bar	0 to 10000 psi	0.02	0.05	0.1	0.2
TEG-G1000b	0 to 1000 bar	0 to 15000 psi	-	-	0.1	0.2
TEG-G1600b	0 to 1600 bar	0 to 25000 psi	-	-	0.1	0.2
TEG-G2000b	0 to 2000 bar	0 to 30000 psi	-	-	0.1	0.2
TEG-G2500b	0 to 2500 bar	0 to 36000 psi	-	-	0.1	0.2

* 0.02% FS for gas media only on these models.

Differential Pressure

Media = Gas.

Burst Pressure: 2.5 & 5 mb: 100x. 10 mb: 50x. 25 to 75 mb: 20x. 160 to 700 mb: 3x.

Model #	Range (mbar)	Range (inH ₂ O)	Accuracy (% FS)	
TEG-DP2.5mb	0 to ± 2.5 mbar	0 to ± 1 inH ₂ O	0.05	
TEG-DP5mb	0 to ± 5 mbar	0 to ± 2 inH ₂ O	0.05	
TEG-DP10mb	0 to ± 10 mbar	0 to ± 4 inH ₂ O	0.05	
TEG-DP25mb	0 to ± 25 mbar	0 to ± 10 inH ₂ O	0.05	
TEG-DP50mb	0 to ± 50 mbar	0 to ± 20 inH ₂ O	0.05	
TEG-DP75mb	0 to ± 75 mbar	0 to ± 30 inH ₂ O	0.05	
TEG-DP160mb	0 to ± 160 mbar	0 to ± 50 inH ₂ O	0.05	
TEG-DP350mb	0 to ± 350 mbar	0 to ± 150 inH ₂ O	0.02	0.05
TEG-DP700mb	0 to ± 700 mbar	0 to ± 300 inH ₂ O	0.02	0.05

Absolute Pressure

Media = Gas only from 350 mbar to 3.5 bar. Gas or Liquid from 7 bar to 350 bar.

Burst Pressure: 3x on all ranges.

Model #	Range (bar)	Range (psi)	Accuracy (% FS)		
			0.1	0.2	
TEG-A350mb	0 to 350 mbar	0 to 5 psi	0.1	0.2	
TEG-A700mb	0 to 700 mbar	0 to 10 psi	0.1	0.2	
TEG-A1b	0 to 1 bar	0 to 15 psi	0.1	0.2	
TEG-A2b	0 to 2 bar	0 to 30 psi	0.1	0.2	
TEG-A3.5b	0 to 3.5 bar	0 to 50 psi	0.1	0.2	
TEG-A7b	0 to 7 bar	0 to 100 psi	0.05	0.1	0.2
TEG-A10b	0 to 10 bar	0 to 150 psi	0.05	0.1	0.2
TEG-A20b	0 to 20 bar	0 to 300 psi	0.05	0.1	0.2
TEG-A35b	0 to 35 bar	0 to 500 psi	0.05	0.1	0.2
TEG-A70b	0 to 70 bar	0 to 1000 psi	0.05	0.1	0.2
TEG-A100b	0 to 100 bar	0 to 1500 psi	0.05	0.1	0.2
TEG-A200b	0 to 200 bar	0 to 3000 psi	0.05	0.1	0.2
TEG-A350b	0 to 350 bar	0 to 5000 psi	0.05	0.1	0.2

Compound Pressure

Media = Gas. Burst Pressure: 3x

Model #	Range (bar)	Range (psi)	Accuracy (% FS)			
			0.02	0.05	0.1	0.2
TEG-C160mb	0 to ± 160 mbar	0 to ± 2 psi	0.02	0.05	0.1	0.2
TEG-C350mb	0 to ± 350 mbar	0 to ± 5 psi	0.02	0.05	0.1	0.2
TEG-C400mb	0 to ± 400 mbar	0 to ± 6 psi	0.02	0.05	0.1	0.2
TEG-C600mb	0 to ± 600 mbar	0 to ± 9 psi	0.02	0.05	0.1	0.2
TEG-C700mb	0 to ± 700 mbar	0 to ± 10 psi	0.02	0.05	0.1	0.2
TEG-C1b	0 to ± 1 bar	0 to ± 15 psi	0.02	0.05	0.1	0.2
TEG-CV2b	-1 to 2 bar	-15 to 30 psi	0.02	0.05	0.1	0.2
TEG-CV4b	-1 to 4 bar	-15 to 60 psi	0.02	0.05	0.1	0.2
TEG-CV7b	-1 to 7 bar	-15 to 100 psi	0.02	0.05	0.1	0.2
TEG-CV10b	-1 to 10 bar	-15 to 150 psi	0.02	0.05	0.1	0.2
TEG-CV20b	-1 to 20 bar	-15 to 300 psi	0.02	0.05	0.1	0.2
TEG-CV25b	-1 to 25 bar	-15 to 360 psi	0.02	0.05	0.1	0.2
TEG-CV40b	-1 to 40 bar	-15 to 600 psi	0.02	0.05	0.1	0.2

Ordering Information

How to Order: **Model Number/Accuracy (eg. TEG-G1b/0.2)**

Add "-NPT" for 1/4 " NPT male thread (eg. TEG-G1b/0.2-NPT)

Options

C202 Traceable calibration certificate (Factory) for TE gauge

C203 Accredited calibration certificate (ISO 17025) for TE gauge

9804 Carrying case for digital pressure gauge (up to 4 pc gauges)

9805 110V/220 V external power adaptor (DC 9 V) for digital pressure gauge

Also available: Pneumatic and hydraulic pumps (handheld and benchtop models), and pressure fittings and adaptors kit.

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.