



- Pressure ranges up to 2500bar (37500psi)
- Gauge/Absolute/Differential/Compound models
- 0.025%, 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

### DESCRIPTION

The TEG range of digital pressure gauges provide high accuracy, resolution and stability. Their 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.

Gauges are available with accuracy up to 0.025% 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 calibration when accompanied by a calibration pump for pressure generation.

### GENERAL SPECIFICATIONS

Ranges .....	Vacuum to 2500bar (see page 2 for available models and ranges)
Pressure Types .....	Gauge / Absolute / Differential / Compound
Accuracy .....	0.2% / 0.1% / 0.05% / 0.025% of full scale
Pressure Units .....	Total of 11 pressure units possible: Pa, kPa MPa, Kgf/cm <sup>2</sup> , mmH <sub>2</sub> O, inH <sub>2</sub> 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 16.5mm character height and analogue dial graph 25mm 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 .....	Measurement of ambient temperature, range -10°C to 50°C, resolution 0.1°C.
RS-232 Interface .....	DB9. EasyCal software compatible (available from Time Electronics)
Pressure Port .....	¼" G BSP male thread, ½" G BSP male thread (>1000bar) 0.156 inch (4mm) test hose for differential pressure (Other connections available per request)
Environment .....	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: one 9V 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, 9V 5.5 x 2.1mm External power socket
Materials .....	Case material: Aluminium alloy. Wetted parts: 316SS.
Dimensions .....	Display head only: 112mm x 35mm, Total height: 178mm.
Weight .....	580g.

# TE Gauge Specifications

## PRESSURE RANGES

The compensated temperature for 0.025% FS is 20°C ± 3°C. The compensated temperature for 0.05% FS is 10°C to 50°C

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

Media: Gas only from vac to 700mbar. Gas or Liquid from 1bar to 2500bar.  
Burst Pressure: Vac to 350bar = 3x, 600 to 1000bar = 2x, 1600 to 2500bar = 1.5x.

Model #	Range (bar)	Range (psi)	Accuracy (% FS)			
			0.025	0.05	0.1	0.2
TEG-GVAC	-1 to 0bar	-15 to 0psi	0.025	0.05	0.1	0.2
TEG-G160mb	0 to 160mbar	0 to 2psi	-	0.05	0.1	0.2
TEG-G350mb	0 to 350mbar	0 to 5psi	0.025	0.05	0.1	0.2
TEG-G700mb	0 to 700mbar	0 to 10psi	0.025	0.05	0.1	0.2
TEG-G1b*	0 to 1bar	0 to 15psi	0.025	0.05	0.1	0.2
TEG-G2b*	0 to 2bar	0 to 30psi	0.025	0.05	0.1	0.2
TEG-G3.5b	0 to 3.5bar	0 to 50psi	0.025	0.05	0.1	0.2
TEG-G7b	0 to 7bar	0 to 100psi	0.025	0.05	0.1	0.2
TEG-G10b	0 to 10bar	0 to 150psi	0.025	0.05	0.1	0.2
TEG-G20b	0 to 20bar	0 to 300psi	0.025	0.05	0.1	0.2
TEG-G35b	0 to 35bar	0 to 500psi	0.025	0.05	0.1	0.2
TEG-G40b	0 to 40bar	0 to 600psi	0.025	0.05	0.1	0.2
TEG-G70b	0 to 70bar	0 to 1000psi	0.025	0.05	0.1	0.2
TEG-G100b	0 to 100bar	0 to 1500psi	0.025	0.05	0.1	0.2
TEG-G140b	0 to 140bar	0 to 2000psi	0.025	0.05	0.1	0.2
TEG-G200b	0 to 200bar	0 to 3000psi	0.025	0.05	0.1	0.2
TEG-G350b	0 to 350bar	0 to 5000psi	0.025	0.05	0.1	0.2
TEG-G600b	0 to 600bar	0 to 8700psi	0.025	0.05	0.1	0.2
TEG-G700b	0 to 700bar	0 to 10000psi	0.025	0.05	0.1	0.2
TEG-G1000b	0 to 1000bar	0 to 15000psi	-	-	0.1	0.2
TEG-G1600b	0 to 1600bar	0 to 25000psi	-	-	0.1	0.2
TEG-G2000b	0 to 2000bar	0 to 30000psi	-	-	0.1	0.2
TEG-G2500b	0 to 2500bar	0 to 36000psi	-	-	0.1	0.2

\* 0.025% FS for gas media only on these models.

### Differential Pressure

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

Model #	Range (mbar)	Range (inH <sub>2</sub> O)	Accuracy (% FS)	
TEG-DP2.5mb	0 to ±2.5mbar	0 to ±1inH <sub>2</sub> O	0.05	
TEG-DP5mb	0 to ±5mbar	0 to ±2inH <sub>2</sub> O	0.05	
TEG-DP10mb	0 to ±10mbar	0 to ±4inH <sub>2</sub> O	0.05	
TEG-DP25mb	0 to ±25mbar	0 to ±10inH <sub>2</sub> O	0.05	
TEG-DP50mb	0 to ±50mbar	0 to ±20inH <sub>2</sub> O	0.05	
TEG-DP75mb	0 to ±75mbar	0 to ±30inH <sub>2</sub> O	0.05	
TEG-DP160mb	0 to ±160mbar	0 to ±50inH <sub>2</sub> O	0.05	
TEG-DP350mb	0 to ±350mbar	0 to ±150inH <sub>2</sub> O	0.025	0.05
TEG-DP700mb	0 to ±700mbar	0 to ±300inH <sub>2</sub> O	0.025	0.05

### Absolute Pressure

Media = Gas only from 350mbar to 3.5bar. Gas or Liquid from 7bar to 350bar.  
Burst Pressure: 3x on all ranges.

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

### Compound Pressure

Media = Gas.  
Burst Pressure: 3x

Model #	Range (bar)	Range (psi)	Accuracy (% FS)			
			0.025	0.05	0.1	0.2
TEG-C160mb	0 to ±160mbar	0 to ±2psi	0.025	0.05	0.1	0.2
TEG-C350mb	0 to ±350mbar	0 to ±5psi	0.025	0.05	0.1	0.2
TEG-C400mb	0 to ±400mbar	0 to ±6psi	0.025	0.05	0.1	0.2
TEG-C600mb	0 to ±600mbar	0 to ±9psi	0.025	0.05	0.1	0.2
TEG-C700mb	0 to ±700mbar	0 to ±10psi	0.025	0.05	0.1	0.2
TEG-C1b	0 to ±1bar	0 to ±15psi	0.025	0.05	0.1	0.2
TEG-CV2b	-1 to 2bar	-15 to 30psi	0.025	0.05	0.1	0.2
TEG-CV4b	-1 to 4bar	-15 to 60psi	0.025	0.05	0.1	0.2
TEG-CV7b	-1 to 7bar	-15 to 100psi	0.025	0.05	0.1	0.2
TEG-CV10b	-1 to 10bar	-15 to 150psi	0.025	0.05	0.1	0.2
TEG-CV20b	-1 to 20bar	-15 to 300psi	0.025	0.05	0.1	0.2
TEG-CV25b	-1 to 25bar	-15 to 360psi	0.025	0.05	0.1	0.2
TEG-CV40b	-1 to 40bar	-15 to 600psi	0.025	0.05	0.1	0.2

## ORDERING INFORMATION

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

### Options

C202..... Factory Calibration Certificate (NPL traceable) for TE gauge  
 C203..... UKAS Calibration Certificate (ISO 17025) for TE gauge  
 9804..... Carrying case for digital pressure gauge (up to 4 pc gauges)  
 9805..... 110V/220V external power adaptor (DC 9V) for digital pressure gauge

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

Full specifications are available on request. Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

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