



Customer Service and Product  
Quality Are Our No.1 Priority

## Terwin DG7 Series High Accuracy Battery Powered Pressure Gauges



### Description:

The Terwin DG7 Series is a battery powered micro-processor controlled, high accuracy and versatile digital pressure measuring instrument with integrated fast peak, maximum and minimum functions.

The instrument can be used in one of two modes:

#### MANO Mode:

The pressure is measured twice per second and displayed. The top display indicates the actual pressure. The bottom display shows the maximum or minimum pressure since the last reset.

#### PEAK Mode:

The pressure is measured 5,000 times per second and is brought to the display twice per second. The top display shows the actual pressure. The bottom display shows the peak (maximum) or trough pressure (minimum).

### Features:

- ✓ Battery powered.
- ✓ Auto power off.
- ✓ High performance.
- ✓ Accuracy better than  $\pm 0.2\%$ .
- ✓ Rugged sensor design.
- ✓ Auto zero adjustment.
- ✓ Programmable.

Terwin Instruments Ltd, Winterbeck Industrial Estate, Orston Lane, BOTTESFORD, Nottinghamshire, NG13 0AU – UK  
Tel: +44 (0) 1949 84 2000 Fax: +44 (0) 1949 84 2004 E-mail: [info@terwin.com](mailto:info@terwin.com) [www.terwin.com](http://www.terwin.com)



## Terwin TPG Series High Accuracy Pressure Gauges

Customer Service and Product  
Quality Are Our No.1 Priority

The Terwin DG7 Series has two operating keys. The left key is to turn the instrument on, to select the functions and the pressure units. The right key executes the selected function or unit. The right key is also used to switch between the MAX. and MIN. values in both modes.

The instrument has the following functions:

**RESET:** With the RESET function, the MAX. and MIN. value is set to the actual pressure value.

**ZERO:** The ZERO function allows to set any value as a new Zero reference. Barometric pressure variations can thus be compensated. The factory setting of the Zero for the ranges -1 to 3 bar or -1 to 30 bar is at 0 bar absolute. For sealed gauge pressure measurements, activate "ZERO SET" at ambient pressure. Instruments with the ranges 0 to 300 bar, 0 to 700 bar or 0 to 1000 bar are calibrated in a sealed gauge mode with 1 bar absolute pressure as a Zero reference.

**CONT:** The instrument turns off 15 minutes after the last key function. Activating CONT (Continuous) deactivates this automatic turn-off.

**UNITS:** All standard instruments are calibrated in bar. The pressure can be indicated in the following units: bar, mbar / hPa, kPa, MPa, PSI, kp/cm<sup>2</sup>

### Display Segments:



### Specifications:

Pressure Ranges	Resolution	Overpressure
-1 to 3 bar	1 mbar	10 bar
-1 to 30 bar	10 mbar	60 bar
0 to 300 bar	100 mbar	400 bar
0 to 700 bar	200 mbar	700 bar
0 to 1,000 bar	200 mbar	1000 bar

Accuracy *	< 0.2% FS
Storage- / Operating Temperature	-20 to 70°C / 0 to 50°C
Compensated Temperature Range	0 to 50°C.
Supply	3 V battery, type CR 2430
Battery Life	1,000 hours continuous operation in Mano-Mode. 150 hours continuous operation in Peak-Mode.
Pressure Connection	G 1/4"
Protection CEI 529	IP 65
Diameter x Height x Depth	76 x 118 x 42 mm
Weight	≈ 210 g

\* Including linearity, repeatability and hysteresis.

Terwin Instruments Ltd, Winterbeck Industrial Estate, Orston Lane, BOTTESFORD, Nottinghamshire, NG13 0AU – UK  
Tel: +44 (0) 1949 84 2000 Fax: +44 (0) 1949 84 2004 E-mail: [info@terwin.com](mailto:info@terwin.com) [www.terwin.com](http://www.terwin.com)