



DTG-2000 Series

Digital Pressure Test Gauge



KEY FEATURES

- 0.2 % FS incl. linearity and hysteresis
- -1 to 700 bar in five standard ranges
- Five digits, 18 mm, with bar graph
- Six units on one key · min, max, zero
- IP65 · SUS304 case · SUS316 wetted
- 1200 hours on four AAA cells

The Pointer Gauge, Without The Pointer.

A digital test gauge with 0.2 percent of full scale accuracy, including linearity and hysteresis, on a piezoresistive sensor with nothing mechanical to wear. Five standard ranges from -1 to 2 bar up to -1 to 700 bar are held for quick delivery, and any range from -1 to 1 bar to -1 to 1000 bar can be built to order.

The display is five digits of 18 mm with a bar graph across the top for the trend and a second line for the minimum or maximum seen since reset. Six pressure units step on one key and are remembered at switch-off. A three-item menu sets the sampling interval, the display timeout and the zero, and four AAA cells run it for 1200 hours.

The case is SUS304 stainless, 3 inches in diameter, sealed to IP65 with SUS316 wetted parts, rated for -10 to 60 °C and media to 80 °C. A quarter-inch NPT connection is standard with five other threads to order, and a switch or analogue output can be fitted for a local alarm or a signal to a PLC. Supplied on its own in a carrying case, or in a kit with a GPS hand pump for calibration work.

IDEAL FOR

- Pressure calibration with a hand pump
- Hydraulic power units and presses
- Air conditioning and refrigeration
- Food and process plant
- Maintenance and commissioning

STANDARD VERSIONS AND ORDER CODE

Order code	Range	Output	Connection
Five standard versions held for quick delivery · code DTG-2000-A-B-C: A range, B output, C connection			
DTG-2000-2G-0-0	-1 to 2 bar	None	¼ NPT
DTG-2000-20G-0-0	-1 to 20 bar	None	¼ NPT
DTG-2000-40G-0-0	-1 to 40 bar	None	¼ NPT
DTG-2000-350G-0-0	-1 to 350 bar	None	¼ NPT
DTG-2000-700G-0-0	-1 to 700 bar	None	¼ NPT
A · other ranges	1G, 2.5G, 4G, 6G, 10G, 16G, 25G, 60G, 100G, 250G, 400G, 600G, 800G, 1KG	-1 bar to the code value, in bar	To order
B · output	0 none · 1 SPDT · 2 4-20 mA · 3 0-20 mA · 4 0-10 V · 5 0-5 V · 6 SPDT and 0-10 V		To order
C · connection	0 ¼ NPT · 1 ½ NPT · 2 ¾ BSP · 3 ½ BSP · 4 M20 × 1.5 · 5 G ½		To order

Accuracy is a percentage of full scale, so choose the smallest range the highest pressure you will see fits inside, with a margin: a 40 bar gauge reads a 20 bar line to ± 0.08 bar, a 700 bar gauge to ± 1.4 bar. Overpressure protection is twice full scale up to 350 bar and one and a half times above it; burst pressure is three times full scale. Example: DTG-2000-40G-2-4 is -1 to 40 bar with a 4-20 mA output on an M20 × 1.5 connection.



WHAT'S IN THE BOX

- DTG-2000 gauge, range and connection as ordered
- Carrying case
- Four AAA cells, to be fitted
- Operating manual
- Pump kits with hose and adapters to order

BEFORE ORDERING · The gauge is not intrinsically safe and must not be used in an explosive atmosphere. Zero it with the port open to atmosphere, never under pressure. Fit it with a spanner on the hexagon, not by turning the case, and seat the rear cover ring on closing to keep the IP65 rating. Ranges outside the five standard ones are built to order; tell us the media, the connection thread and whether you need an output or a certificate.

GENERAL SPECIFICATIONS

Item	Order Code
Digital pressure test gauge, -1 to 2 bar, ¼ NPT, no output	DTG-2000-2G-0-0
Digital pressure test gauge, -1 to 20 bar, ¼ NPT, no output	DTG-2000-20G-0-0
Digital pressure test gauge, -1 to 40 bar, ¼ NPT, no output	DTG-2000-40G-0-0
Digital pressure test gauge, -1 to 350 bar, ¼ NPT, no output	DTG-2000-350G-0-0
Digital pressure test gauge, -1 to 700 bar, ¼ NPT, no output	DTG-2000-700G-0-0

ACCURACY

± 0.2 % of full scale including linearity and hysteresis · temperature stability 0.05 % FS per °C or better · compensated -10 to 70 °C

UNITS AND FUNCTIONS

kPa, bar, MPa, psi, kgf/cm², mbar on the P/UNIT key, retained at switch-off · min and max with reset · zero · sampling interval continuous or 1 to 99 s · display timeout always-on or 1 to 99 min

CASE AND SEALING

SUS304 stainless, 3 inch (76 mm) diameter · IP65 · about 230 g

OUTPUTS (OPTION)

SPDT switch · 4-20 mA · 0-20 mA · 0-10 V · 0-5 V · SPDT with 0-10 V

POWER

4 × AAA, 6 V DC · 1200 hours minimum · cells supplied, not fitted

COMPLIANCE

EN 61010-1 · EN 61326-1 · CE

DISPLAY

Five-digit LCD, 18 mm digits · bar graph · second line for min or max · units, low battery and overrange indicators

MEDIA AND WETTED PARTS

Gases and liquids compatible with SUS316 · media temperature -10 to 80 °C · wetted parts SUS316

CONNECTION

¼ NPT male standard · ½ NPT, ¾ BSP, ½ BSP, M20 × 1.5 and G ½ to order

OVERPRESSURE

2 × FS up to 350 bar · 1.5 × FS above 350 bar · burst 3 × FS

ENVIRONMENT

Operating -10 to 60 °C · 0 to 90 % RH non-condensing · storage -20 to 70 °C · not for explosive atmospheres

CALIBRATION AND WARRANTY

Supplied calibrated · recalibrate at two years, or annually where your quality system requires · 1 year warranty, subject to product registration with GPS LTD