CalRef Srl The Calibration Reference

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Model DGS High Accuracy Digital Test Gauge

DGS is a micro-processor controlled, accurate and versatile digital pressure measuring instrument with integrated Max.-/Min.function for calibration and testing purposes. Range from – 1 to 1000 bar Accuracy 0.05 % f.s. or better



The pressure is measured twice per second and displayed. The top display indicates the actual pressure, the bottom display shows the Max.- or Min.-pressure since the last RESET. **DGS** 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 resp. unit or displays the Max.- and Min.-value. 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 ≤ 30 bar is at 0 bar absolute. For sealed gauge pressure measurements, activate "ZERO SEt" at ambient pressure. Instruments with ranges > 30 bar are calibrated in a sealed gauge mode with ambient pressure as a Zero reference.

CONT:

The instrument turns off 15 Min. 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 13 different units,





Technical Specification

Ranges *

Damas	Deschutter.	0
капде	Resolution	Over press.
-1÷2 bar	0,1 mbar	3 bar
-1÷10 bar	1 mbar	15 bar
-1÷20 bar	1 mbar	30 bar
-1÷40 bar	2 mbar	50 bar
0÷100 bar	10 mbar	150 bar
0÷200 bar	10 mbar	300 bar
0÷400 bar	50 mbar	600 bar
0÷1000 bar	100 mbar	1100 bar
	-1÷10 bar -1÷20 bar -1÷40 bar 0÷100 bar 0÷200 bar 0÷400 bar	$-1 \div 2$ bar $0,1$ mbar $-1 \div 10$ bar 1 mbar $-1 \div 20$ bar 1 mbar $-1 \div 40$ bar 2 mbar $0 \div 100$ bar 10 mbar $0 \div 200$ bar 10 mbar $0 \div 400$ bar 50 mbar

* different pressure ranges available on request

- Numbers of Digits: 5
 Accuracy: (10...30 °C) 0,05 % f.s. (including linearity, repeatability and hysteresis)
- Storage / Operating Temperature:10...60 °C /0...50 °C
- Compensated Temperature Range: 0...50 °C
- **Supply**: 3V battery, type CR 2430
- Battery Life: 2000 hours continuous operation "BAT LOW" warning on display
- **Pressure Connection**: 1/4" BSP M
- Protection: IP 65
- Diameter x Height x Depth: 76 x 118 x 42 mm
- Weight: 210 g
- Interface:RS485; rear-sided mating plug "Fisher" compatible with

PC-converter cable RS232 and USB IP65

Intrinsically safe version: 94/9/CE (ATEX) Avilable

- Classification: 🙆 II2G EEx ia IIC T6
- **Certification file** PTB05ATEX 2012X

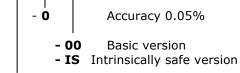
Standard Supply

Standard supply includes:

- Basic Unit
- Certificate of Compliance
- Operating Manual

Order Guide





range code (see table)

Accessories and Options

Set of 5 Adaptors Adaptor ¹/₄" BSP F – ¹/₄" NPT M Carring bag Accredited Calibration Certificate

We reserve the rights to alter at any time the technical specifications without notice.

