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

⟨Ex⟩   Ex Version Available

General

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*

Code	Range	Resolution	Over press.
DGS-102	-1÷2 bar	0,1 mbar	3 bar
DGS -110	-1÷10 bar	1 mbar	15 bar
DGS -120	-1÷20 bar	1 mbar	30 bar
DGS -140	-1÷40 bar	2 mbar	50 bar
DGS -100	0÷100 bar	10 mbar	150 bar
DGS -200	0÷200 bar	10 mbar	300 bar
DGS -400	0÷400 bar	50 mbar	600 bar
DGS -1K0	0÷1000 bar	100 mbar	1100 bar

* 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:** 59 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) Available
- **Classification:**   II2G EEx ia IIC T6
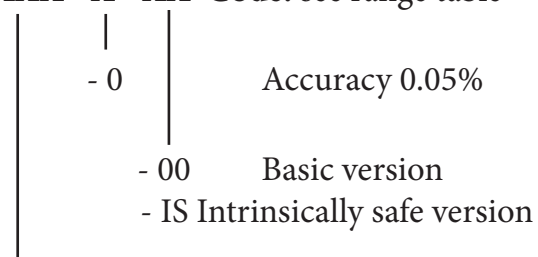- **Certification file** PTB05ATEX 2012X

Standard Supply

Standard supply includes:

- Basic Unit
- Certificate of Compliance
- Operating Manual

Order Guide

DGS -XXX - X - XX Code: see range table

```
         |       |  |
        - 0         Accuracy 0.05%

              - 00      Basic version
             - IS Intrinsically safe version
         |
     range code (see table)
```

Accessories and Options

Set of 5 Adaptors
Adaptor ¼" BSP F – ¼" NPT M
Carring bag
Accredited Calibration Certificate