



USER MANUAL DIGITAL PRESSURE GAUGE

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DIGITAL PRESSURE GAUGE

DPG-2/10/20/40/70/200/400/700/1000

INTRODUCTION

The Digital Pressure Gauge Series is a portable and adaptable product use to test and calibration of pressure gauges, vacuum gauges, Pressure/Vacuum Transmitters and Pressure/ Vacuum switches etc.

STANDARD ACCESSORIES

- User Manual
- Batteries
- Traceable Calibration certificate
- Optional—Refer Catalouge

SAFETY INSTRUCTION

- To avoid Physical and/or any other damage to the Product, do not operate the product around explosive Gas, hazardous liquid, water drizzling area and vapour. Try to keep the product away from it.
- Do not use the product if it operates abnormally protection may be impaired.
- To avoid false readings, change the battery as soon As possible when low battery indication appears
- Do not apply pressure more than the specified range, Pressure transducer may be damage and/or personnel injury occurs due to inappropriate pressure is applied
- Press ZERO buttons to zero the product when vented to atmospheric pressure.
- When the product shows “OVER PRESSURE” on the display, the pressure must be reduced immediately as soon as possible to prevent product and personnel damage.
- DO not use and disable the product, if is damaged.
- The burst pressure of the product is **1.5 times** of full Scale or **1100 bar** (whichever minimum).

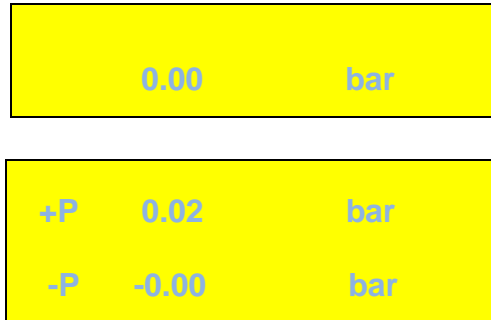
KEY FUNCTIONS

Table lists the DPG keys and their functions.

DESCRIPTION	FUNCTION
ON/OFF	To switch ON/OFF the instrument
LIGHT	To switch ON/OFF Back light
MEAN/PEAK	Select mean/peak to view the upward and downward stream when connected to an either continuous or batch process pressure.
ZERO	To make zero before calibration/Testing
UNITS	To select unit

DISPLAY

The digital pressure Gauge display contains 2 Line



1. Pressure indication & its corresponding unit
2. Mean/Peak measurement

SUPPLY/CHANGING BATTERIES

The product is supplied along with four **1.5V ICE LR6** batteries (AA). To avoid false readings , change the same type of batteries or equivalent as soon as possible if “**LOW BATTERY**” indication appears on display .This has to be done on product switched off condition, the life of battery is **200 hours** at continuous operation. Battery compartment is located inside of product, Open the cover of the product by rotate the cover in anti-clockwise direction, Replace the old batteries with new batteries, Re-attach the top cover , push and rotate in clock wise direction until it is fully engaged and return back to its initial position.

DISPLAY BACKLIGHT

To switch ON the backlight of the display, press the ‘LIGHT’ key once to switch ON & it will automatically switched off after 20 seconds

PRESSURE SOURCE

The following pressure source can be used along with the product based on range.

- HP2
- HP25
- HP 700
- HP –P700
- CP400
- CP1000

WARNING

- In general, End connection of the product of the product is ¼ "BSP external thread .Screw the product into corresponding thread by hand, if desired, tighten by corresponding spanner/wrench.
- The product is maintenance-free. if desired, the housing of the product can be cleaned using a damp cloth and non-aggressive cleaning solutions and a soft brush when product is in switched off condition.

GENERAL SPECIFICATION

Over Pressure Alarm	: 20% of full scale for up to 40 bar
	: 5% of full scale for above 40 bar
Burst Pressure	: 1.5 times of full scale or 1100 bar (whichever is Min.)
Pressure Media	: Compatible to 316 stainless steel
Display	: 2 x 16 Alpha Numeric display
Backlight	: LED backlight; Auto-off after 20 Seconds
Power Supply	: 4 x 1.5V alkaline batteries
Low Battery Indicator	: Yes
Auto Power off	: 30 minutes
Battery Backup	: 200 hours
Pressure Connection	: ¼ "BSP (M)
Operating Temperature	: 10 to 50°C
Instrument Casting	: SS304
Protective Cover	: Rubber Boot
Instrument Dimensions	: 4" or 100 mm Dial
Instrument Weight with battery	: ~500 grams

DPG SERIES

Model	Range	Resolution	Pressure Units
DPG 0.2	0 to 0.2 bar	0.0001 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa, inH ₂ , mmHg, mbar, cmH ₂ O, mmH ₂ O
DPG 2	-1 to 2 bar	0.0001 bar	
DPG 10	- 1 to 10 bar	0.001 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa, mbar, cmH ₂ O, mmH ₂ O
DPG 20	-1 to 20 bar	0.001 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa, mbar, cmH ₂ O, mmH ₂ O
DPG 40	-1 to 40 bar	0.001 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa, mbar, cmH ₂ O, mmH ₂ O
DPG 70	0 to 70 bar	0.001 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa, mbar, cmH ₂ O, mmH ₂ O
DPG 200	0 to 200 bar	0.01 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa,
DPG 400	0 to 400 bar	0.01 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa,
DPG 700	0 to 700 bar	0.01 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O, kPa,
DPG 1000	0 to 1000 bar	0.1 bar	bar, Kg/cm ² , MPa, mH ₂ O, atm, psi, inHg, ftH ₂ O
PM - 6105	-137 to 137 mbar	0.1 mbar	bar, Kg/cm ² , psi, inHg, ftH ₂ O, kPa, inH ₂ , mmHg, mbar, cmH ₂ O

***other ranges on request**

Note 1: Accuracy includes effect of non-linearity, hysteresis and repeatability at 23±5 °C

Note: Accuracy mentioned above is valid for 1 Year