

DPG100

Product Specifications

Pressure Range	0 to 100 PSI
Measurement Units	PSI, BAR, Kg/cm2, ATM
Accuracy	< $\pm 0.5\%$ Full Scale (includes Non-linearity, Hysteresis and Non-repeatability)
Stability (1 year)	$\pm 0.25\%$ Full Scale (typ)
Over Range Protection	2000 PSI
Burst Pressure	5000 PSI
Pressure Cycles	> 100 Million
Operating Temperature Range	32°F to 130°F (0°C to 55°C)
Storage Temperature Range	-40°F to 150°F (-40°C to 65°C)
Compensated Temperature Range	32°F to 130°F (0°C to 55°C)
Temperature Compensation Zero	< $\pm 1.5\%$ of Full Scale
Temperature Compensation Span	< $\pm 1.5\%$ of Full Scale
Pressure Sensor Connection	1/8" NPT Female
Update Rate	3 Samples per second(typ)
Power	9-Volt Alkaline Battery
Automatic Power Off	1 Hour
Battery Life	100 Hours Continuous operation (typ)
Instrument Case	High Impact ABS



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P/N 19279
 Rev. 05092014



DPG1000/100

Digital Pressure Gauge

Manual

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Operating Instructions

The DPG1000 (100) is a microcontroller based digital pressure gauge that can be used with any gas, liquid or solid that is compatible with 17-4 PH stainless steel.

The DPG transducer is a one-piece high strength stainless steel construction that uses no silicone oil, no welds and no o-rings or seals making it ideal for pressure measurements of all kinds.

All functions of the DPG are controlled from 3 front panel push buttons located below the display. Each button has a specific function as described below.

POWER: Press and release this button to turn the DPG ON or OFF. The DPG will automatically turn OFF after one hour to conserve battery power.

ZERO: Press and release this button to place the DPG in RELATIVE PRESSURE mode. The display will read ZERO at the pressure the button was pressed at and display pressure readings +/- relative to the pressure displayed at the time the button was pushed. Press this button again to return to GAUGE mode of operation.

UNITS: Press this button to cycle through the UNITS of measurement the DPG can display. The DPG can measure pressure in PSI, BAR, Kg/cm², and ATM. This can be changed at any time and will not affect the operation of the DPG.

ZERO SET: Over the course of time it may become necessary to reset the DPG to zero. This is a special function of the DPG and can only be done at zero pressure. Press and hold the POWER and ZERO buttons simultaneously until the display reads "ZERO SET". Release both buttons and the display will read zero pressure in the current pressure units selected.

LOW BATTERY: The DPG will display a "B" in the upper right corner of the display to indicate the battery is nearly discharged and the DPG will shortly cease operation. For best results replace the battery immediately and use only Alkaline or Lithium 9V batteries.

DPG1000 Product Specifications

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Measurement Units	PSI, BAR, Kg/cm ² , ATM
Accuracy	< ± 0.5% Full Scale (includes Non-linearity, Hysteresis and Non-repeatability)
Stability (1 year)	±0.25% Full Scale (typ)
Over Range Protection	2000 PSI
Burst Pressure	5000 PSI
Pressure Cycles	> 100 Million
Operating Temperature Range	32°F to 130°F (0°C to 55°C)
Storage Temperature Range	-40°F to 150°F (-40°C to 65°C)
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