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DPG25V
P/N 20437
05072014



DPG25V Digital Pressure Gauge Manual

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Operating Instructions

The DPG25V 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, 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. When the button is pressed, the display will read ZERO instead of the pressure measurement. Subsequent display readings will be +/- relative to the original pressure.

UNITS: Press this button to cycle through the UNITS of measurement the DPG25V can display. The DPG25V can measure pressure in PSI and InHg. 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.

DPG25V Product Specifications

Pressure Range	-30 to 51 InHg (-14.7 to 25 PSI)
Measurement Units	InHg, PSI
Resolution	
PSI	0.1
InHg	0.01
Accuracy	< ± 0.5% Full Scale (includes Non-linearity, Hysteresis and Non-repeatability)
Stability (1 year)	±0.25% Full Scale (typ)
Overrange Protection	102 InHg (50 PSI)
Burst Pressure	255 InHg (125 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	< ± 1.5% of Full Scale
Temperature Compensation Span	< ± 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)
Case Material	Polycarbonate