System Studies Incorporated

Digital Pressure Gauge

Offering greater convenience and accuracy in manual air pressure measurement

One of the more recent additions to the System Studies line of cable pressurization leak locating tools is the compact and rugged Digital Pressure Gauge (P/N 9800-3123). The gauge reads from 0-30 psi with over range protection to 60 psi.

At approximately 18 ounces (0.51 kg) in weight and 3.375 inches (8.57 cm) in diameter, the Digital Pressure Gauge fits easily into most tool bags or compartments. When the air chuck is connected to the gauge's tank valve, the entire unit can be hung on a hook for even more convenient storage.

A thick rubber boot provides exceptional impact protection for the extruded aluminum housing and makes it easy to grip and hold the gauge. Adding to its overall durability is a rubber O-Ring which positively seals the gauge face and housing—preventing moisture from damaging the unit, even if it is inadvertently dropped in water.

Power to the Digital Pressure Gauge is supplied by two standard AAA batteries. An auto shut-off capability helps to conserve cell power and contribute to the exceptionally long battery life.

Taking pressure readings with the Digital Pressure Gauge is much easier than with the old-style C Pressure Gauge. It has a four digit digital display that reduces the potential for errors in readings by eliminating the parallax problems prevalent with analog gauges. Reading accuracy is +/- 0.50% full scale. To facilitate use in a variety of applications, the Digital Pressure Gauge provides 12 measurement output units, including psi, kPA, mbar, in. Hg, etc.

Features

A four button key pad provides easy access to features, which include display backlight activation, peak and valley reading recall, auto zeroing, and measurement unit selection. Please refer to the instructions on the back side of this document for a simplified explanation of button operations.

The gauge is supplied with a 20 inch (50.8 cm) length of tubing and a standard air pressure chuck valve for quick connection to standard chuck valves. The air chuck can be attached to the rubber boot tank valve for convenience and easier storage.

Maintenance

A "LOW BAT" descriptor indication will appear on the display when batteries need to be replaced. To replace the batteries first remove the pressure tube fitting at the bottom of the gauge and slip the rubber boot over the gauge from the bottom upward. (The tank valve is attached to the protective boot.)

Once the rubber boot has been removed, loosen the three screws which hold the backplate to the housing and lift the backplate off by hand. Replace the batteries, mindful of the proper polarity. To reassemble ensure that the O-Ring seats into the housing evenly, and press along its circumference until it is seated completed. Replace the backplate and screws, making sure that the screws are secured. Slip the rubber boot back over the gauge and reconnect the tubing.

(**Note:** it is advisable to replace the Teflon tape before inserting the tube fitting.)

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Specifications

Housing Materials: Black polycarbonate front & back cover, anodized aluminum extruded housing with recessed grooves, polycarbonate overlay, Buna-N O-Rings, 316L SS Sensor Construction

Protective Boot: Black 4mm rubber, aluminum plate with threaded nickel-plated brass tank valve

Pressure Range: P/N 9800-3123—0 to 30 psi (over range protection to 100 psi

Temperature Limits: 0 to 130°F (-18 to 55°C)

Weight: 8.84 oz (275 g); 18.23 oz (517 g) including boot, tubing and chuck

Display: 4 digit .425 in (1.08 cm) High x .234 in (.59 cm) Wide digits

Output Engineering Units: psi, in Hg, oz in^2, in w.c., ft w.c., mm Hg, mm w.c., kg/cm^2, kPa, mbar, bar, cm w.c.

Power Requirements: Two AAA batteries

Battery Life: 2000 hours typical; low battery indicator

Auto Shut-off: 60 minute auto shut-off; auto shut-off may be disengaged; 2 minute auto shut-off for backlight

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DIGITAL PRESSURE GAUGE OPERATION INSTRUCTIONS

ON

ZERO

UNITS

P/V

Digital Pressure Gauge Operation Instructions

1) Press **ON** button to activate. When dark press again to illuminate. Will show units setting (e.g. PSI) and digital readout.

2) If units does not indicate all zeros in readout display, press and hold **ZERO** button (3-5 seconds) to calibrate gauge.

3) Select desired measurement value (psi, kpa, mbar, etc.), by pressing and releasing **UNITS** button (10 options are provided).

4) Attach tank valve chuck to pressure testing valve to obtain reading.

5) Press **P/V** button once to view lowest stored reading (valley). Press again to view highest stored reading (peak).

6) To turn off, press and hold **ON** button (4-6 seconds).

Digital display output is powered by two 1.5 volt AAA alkaline batteries. To replace batteries, remove protective rubber cover from gauge, loosen and remove faceplate screws on back of gauge to reveal batteries.

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Note: The Digital Pressure Gauge Operation Instruction comes attached to gauge.

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Part No. 9800-3123

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