

USER'S MANUAL FOR DIGITAL PRESSURE GAUGE

MODEL NO. AI-DPG-401



For any technical assistance, please feel free to contact factory at the below address...

Manufactured By:

ACE INSTRUMENTS

(An ISO 9001-2008 Certified Company)

Plot No.77, Shaktipuram, Industrial Estate Kukatpally, Prashantinagar,
Hyderabad - 500072. Phones: +91-40-23078848, 32901226

Email: sales@alwaysace.com

Website: www.alwaysace.com

INTRODUCTION:-

The Digital Gauge must be exercised and re-zeroed whenever exposed to significant environmental conditions to achieve these specifications. To exercise the gauge, cycle the Digi Gauge between zero and pressure of interest.

A properly exercised gauge will return to perfect zero reading.

Expose to environmental extremes of temperature, shock and/or vibration may warrant a more frequent re-certification period.

Power : 7.5V (1.5 V x 5 nosAA Alkaline Batteries).

Connection : ¼” BSP Male (Other on request by adopter)

Over Pressure : 125% of specified range

Temperature : Storage: 20 to 50 Deg.C Operating: 20-45 Deg.C

Enclosure : Light weight, ABS Plastic.

Display : LCD Display

Unpacking:

The Digi Gauge is supplied with leather case. The model is easy to use, and operates on dry cells which are housed in battery compartment inside the instrument. ON/OFF switch is provided on front along with other multi-functional keys.

Normal use of the Digi Gauge - AI-DPG-401:

The Digi gauge is simple to use, Switch on the instrument it will check various parameters like memory, calibration. After self check it will display the pressure along with unit. If the pressure part is in open condition ideally it should show 00000 reading if not press ZERO for 2 sec. Now instrument should read 00000 If not consult factory. If all ok you can connect the instrument as required. always tighten the instrument using right spanner. You can also select the desired units

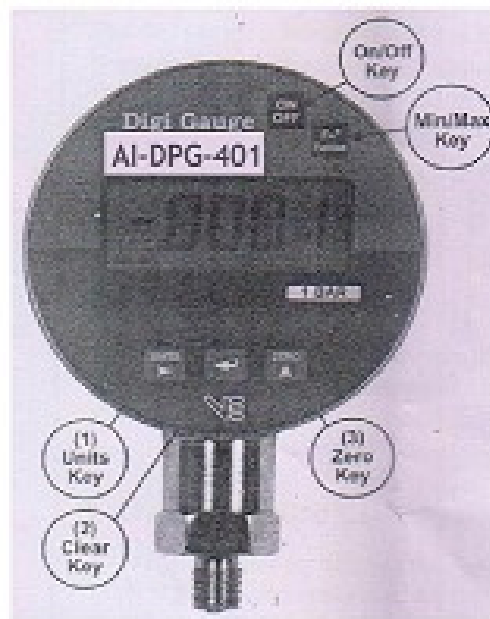
Quality is not an act, it is a habit.”



by pressing UNITS switch for 2 sec.

Description of Multifunction Key:

There are five keys in the front of Digi Gauge. the functions of the keys are:



On/Off key: To switch on or off the instrument.

Unit key: Pressure displayed in different pressure scales (Kg/cm², Bar, PSI, Kpa, In. Hg, In WC, mm Hg, mm.W/C) the units available will depend on the maximum range of the unit.

Clear Key: By Pressing Key2, stored maximum and minimum values will be cleared.

Zero: By pressing Key3, instrument will read zero.

Min/Max key: By pressing Key4, maximum and minimum values of pressure attained by sensor will be displayed. the feature is great for finding spike pressures on a system or setting safety release valves.

Warning: Severe injury can occur through improper use of pressure

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instruments. do not exceed recommend pressure limits of tubing and fittings.

Never disconnect pressure instrument without first relieving the system pressure.

Caution: Never insert any object into the pressure connection. The sensor diaphragm is very thin and will be damaged or destroyed by solid or sharp objects. Cleaning of the sensor must be done with appropriate solvents only.

Note: There are no user serviceable components inside.

Zero: To make sure that the Indicator is performing to its rated accuracy, the unit should be exercised and re-zeroed whenever exposed to changes in temperature. It is also good practice to check zero as your final reading too, as the unit should return to perfect zero reading.

The zero reading may also shift when the calibrator is moved from a vertical to a horizontal orientation.

Units Button: Pressing this buttons caused the Digital Gauge to select next available unit of pressure measurements.

Peak detection: The Digital Gauge continuously records the maximum and minimum applied pressure. To view maximum and minimum pressure value press the MAX / MIN button, values will get reset when unit is turned off. And after turning on the unit again they show the current reading of the unit.

To clear or rest the maximum and minimum values recorded you can press the CLEAR button.

Measuring Vacuum: All Indicators which have vacuum range can be used to measure vacuum. When measuring pressure less than ambient barometric conditions, a minus (-) sign will appear.

Over Pressure Conditions: The sensor is rated for 125% of the specified range. If pressure exceeds beyond 125% of the specified pressure, the sensor may burst. the Digital Gauge will read “OVERRANGE” if pressure exceeds the specified range.

Low Battery Indicator: On low battery the unit will display LO-BATT.

