MARTEL ELECTRONICS

General Description

The BetaGauge 301 is a general purpose, value oriented pressure calibrator. With one internal pressure range and an available adapter for external BetaPort–P pressure modules, the possibilities are extensive.

Available Ranges and Engineering Units

The available internal sensor ranges are: 1, 5, 30, 100 and 300 PSI. Note: 30 and 100 PSI ranges are calibrated from -12 PSI to full scale.

Pressure may be displayed in the user's choice of engineering units, which include

- PSI
- Bar
- mBar
- kPa
- MPa
- kg/cm^2
- cm H_2O@4°C/
- cm H_2O @ 20°C
- cm H_2O @ 60°F
- m H_2O @ 4°C
- m H_2O @ 20°C
- m H_2O @ 60°F
- in H_2O @ 4°C
- in H_2O @ 20°C
- in H_2O @ 60°F
- ft H_2O @ 4°C
- ft H_2O @ 20°C
- ft H_2O @ 60°F
- mm Hg, in Hg
- USER defined unit.

Major Features

- One isolated pressure sensor
- External pressure module connection supports all BetaPort–P pressure modules (25+ ranges)
- Internal 24 V DC loop power supply
- Measure 24 mA or 30 V DC
- Large, backlit, configurable display for 1, 2 or 3 variables
- Switch test on Pressure (internal or external)
- Five (5) frequently used setups can be saved
- % error and damping functions
- Compact handheld design
- Powered by 4 AA Alkaline batteries

Performance

Pressure Accuracy
All ranges   ±0.05% FS

DC Measurement Accuracy
mA   ±0.015% of rdg ± 0.002 mA
Volts   ±0.015% of rdg ±0.002 V

Temperature Effect
No effect on accuracy for all functions from 18° to 23°C
Add ±0.005% FS/°C for temperatures outside range

General Specifications

Environmental
Operating Temperature   -10° to +50°C
Storage Temperature   -20° to +60°C

Power
Battery   Four (4) AA Alkaline cells
Battery Life   >35 hours continuous typical usage

Physical

Dimensions
8.3" H x 3.9" W x 1.8"D
21 cm H x 10 cm W x 4.6 cm D

Weight
1 lb., 4 oz. (0.57 kg)

Connectors/Ports
Pressure (1) ⅛" FNPT, BetaPort-P pressure module, std. banana jacks for mA and V.

Included Accessories
Soft case, batteries, manual, NIST traceable calibration certificate, test leads

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