

# TDS Test Equipment Feature Product

New for 2009

## MARTEL

BetaGauge 330 Hand Held Pressure Calibrator with Integral Electric Pressure Pump



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"With the new BetaGauge 330, technicians will have a lightweight hand held calibrator that generates pressures up to 150 PSIG (10 Bar/100 kPa) using a high performance integral electric pump.

"Before the BetaGauge 330, users had to manually generate pressures with tedious and hard to use manual pumps or use large, heavy and unwieldy boxes with limited portability and limited battery life. That time has come to an end."

The BetaGauge 330 (patent pending) has a form factor only slightly larger than Martel's popular BetaGauge 321 and weighs in at a mere 2.5 pounds (1.1 kg). The housing is contoured to easily fit a technician's hand with good balance top to bottom.

Performance doesn't stop with the pump. The BetaGauge 330 provides  $\pm 0.025\%$  of full scale accuracy on its internal, isolated pressure sensor. Wide range temperature compensation on its internal sensor ensures accuracy in field applications. An external pressure module connection supports 29 ranges of BetaPort-P pressure modules for greater measurement capability.

A Pt100 RTD input is provided for temperature measurements accurate to  $\pm 0.1$  °C (0.2 °F). This facilitates the use of the 330 for the calibration of mass flow computers.

In addition, the BetaGauge 330 measures and simulates 4-20 mA loop current signals. It can measure up to 30 VDC. An internal 24 VDC Instrument Power Supply supplies power to a transmitter under test.

Like its BetaGauge calibrator siblings, the 330 displays up to 3 calibration values at one time from the choice of internal pressure sensor, external pressure sensor, temperature from the optional RTD probe or electrical (mA or VDC). The display is a 128 x 64 pixel back lit LCD that's easy to read in any lighting condition.

The compact, rugged design operates on eight (8) standard AA Alkaline batteries. Due to the power saving designs incorporated in the BetaGauge 330, it can perform 300 calibration cycles to 150 PSI on one set of batteries.

The 330 comes in 3 ranges of 30 PSI (2 Bar/20 kPa), 150 PSI (10 Bar/100 kPa) and 300 PSI (20 Bar/200 kPa). The 300 PSI version uses a manually operated handpump. All ranges are capable of generating and reading vacuum as well as pressure.

Like all Martel calibrators, the BetaGauge 330 comes from the factory ready to go to work. Batteries ARE included along with NIST traceable calibration certificate, test leads, test hose, carrying case and user manual. The BetaGauge 330 is also available in various kit forms with RTD probe and adapter fittings and hoses.

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