



#### BetaGauge 330 with Integral Electric Pump



This pressure calibrator is small, lightweight and generates 300 PSI using a high performance integrated electric pump In addition, the 330 measures and simulates 4-20mA loop current signals. No more manual pumping, just push a button to generate both vacuum and pressure.



#### BetaGauge 311A/321A **Pressure Calibrator**

Whichever you choose, the single sensor 311A. or the dual sensor 321A you'll have everything you need to calibrate pressure. Pick from 27 available pressure ranges. Measure 4-20mA and up to 30VDC. Large graphic display can be setup to display up to 3 inputs simultaneously.

#### BetaGauge 311A-EX/321A-**EX Intrinsically Safe** Calibrator



#### BetaGauge 301 Single Sensor Pressure Calibrator

This single sensor pressure calibrator offers great value and performance at ±0.05% FS accuracy. Add the optional BPPA-100 adapter and BetaPort-P pressure modules to expand measurement capability. Readings can be displayed in a number of engineering units including a user defined option.

#### **Reference Class PIR-PRO Calibration Test Gauge**



#### Accuracy of ±0.04% reading ±0.01% FS and temperature compensation makes this gauge an ideal choice for calibration. A protective rubber boot and ATEX approval come

standard.



BetaGauge PI-PRO Digital **Pressure Gauge** 

> The PI-PRO provides ±0.05% FS accuracy in any one of eighteen (18) pressure ranges -Add the BetaLOG-PI software and you have a high performance data logger.



**DPC-300A Precision** 

**Pneumatic Calibration** 

regulate plant air up to 100 PSI or generate pressure up to 300 PSI with the internal electric pump. The rugged IP67 case and rechargeable NiMH battery make it ideal for field use.



Operation of this manometer is made easy through the use of a sealed membrane keypad with simple controls. It's available in several ranges from 10" H2O to 3000 PSL

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#### MECP10K Hydraulic Pump, 0 to 10,000 PSI

**T-140 Pressure Manometer** 



This hand pump provides a hand held hydraulic pressure source from 0-10,000 PSI. A wide variety of pressure media may be used. Add a gauge for a complete testing solution. In kit form it comes in a rugged carrying case.

**BetaPort-P Digital Pressure** Modules



#### BetaPort-P pressure modules are offered in 25 different ranges,

covering gauge, vacuum, absolute, compound and differential measurements

## **MECP100 Pneumatic Hand** Pump, -12 to 100 PSI

This pocket sized pneumatic pump can generate vacuum and pressure well above 100 PSI. The precise vernier control makes it ideal for low pressure calibration. It's available in kit form in a rugged hard sided case.



With improved volume per stroke and field serviceable check valves this is the go to pneumatic pump. The

MECP500 is available in kit form with hard case. tubing and fittings.

# **Application Note - Calibrating Pressure Switches**

A pressure switch uses a diaphragm, piston, or other pressure responsive sensor to open or close an electrical contact when a certain limit has been reached. They can be monitoring pressure, vacuum, or differential between two given points and actuate on pressure increase or decrease.

Pressure switches are used on all sorts of processes across numerous industries for safety, monitoring and control applications. Here are just a few examples: Food & Beverage to control incoming water pressure, Medical for monitoring oxygen for before mixing, HVAC to control gas pressure in a water heater, and Chemical for detecting pressure drop across a filter. Periodic calibration of the pressure switch is essential to ensure product or process quality and safety.

Martel Electronics offers a variety of calibrators and pumps that detect the switch open, close, and indicate deadband. The BetaGauge 330 Series and the DPC-300A both feature internal electric pumps and dedicated procedures that walk you through the process step by step. The results are captured right on the screen, and there is no need to carry an additional pressure source.



# **Calibration Technology Starts Here!**



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### IT'S NOT ROCKET SCIENCE - OR IS IT?

Although most calibration jobs aren't rocket science, some of the instrument calibration challenges faced by engineers and technicians are tricky. Martel can help with your problem. We offer combined application experience of 90+ years in the business. Our staff has handled applications in virtually all industries and types of applications for pressure, electrical and temperature measurement and control. Further, it's easy and free to get help. An email to <u>sales@martelcorp.com</u> or a call to 800.821.0023 (603.434.1433 outside the US or Canada) is all it takes. Your question will be promptly referred to one of our experienced staff. We won't just try to sell you, but will honestly answer your questions and tell you if we aren't able to offer a solution. In fact, if we know who can offer a solution, we'll tell you that, too.

