Druck
a Baker Hughes business

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How Druck outperforms the competition: a walk-through

Here's a feature and performance comparison of Druck's PACE CM3 Reference Control Module and similar competitive offerings.

Control speed

PACE uses Pulse Width Modulation (PWM) technology to provide market leading speed to setpoint across all pressure levels to deliver higher levels of accuracy. This technology typically provides between a 2 and 5 times speed advantage over the closest competitors. Faster testing equals increased productivity equals greater return on investment.

Control stability

PACE technology allows the user to achieve control stability on their pressure measurements to within 10 ppm FS or better. This compares to 20 ppm FS at best of the nearest competitor, but usually 30 ppm or even 50 ppm. It is crucial to include this stability term as part of the uncertainty calculation for the overall measurement system, not all of Druck's competitors do.

Measurement precision

Not to be confused with accuracy, measurement precision of a PACE CM3 calibrator is a market leading 10 ppm FS. This includes all non-linearity, hysteresis, repeatability and reproducibility terms over the full operating temperature range. This highly precise control is down to the use of our proprietary TERPS® (Trench Etched Resonant Pressure Sensor), which has enhanced metrological characteristics when compared with the piezo-resistive sensors used by many of our competition. This results in the confidence of measurement data quality to trust each and every pressure measurement undertaken by the PACE controller.

Long-term Measurement stability

PACE CM3 boasts unrivalled measurement stability of 25 ppm FS per annum for absolute ranges of 3.5 bar and below. For ranges of 8 bar absolute and above the PACE CM3 utilizes the highly stable barometer to tare against and therefore can achieve market leading 1-year total uncertainty figures in absolute and pseudo-gauge modes. The additional benefits of CM3 in this area include the ability to tare the measurement sensor within the controller as opposed to the requirement to remove the sensor from the equipment for taring. This means that the taring procedure completely eliminates any long term drift with respect to the highly stable barometer. This is due to PACE CM3 also being highly accurate with respect to span. Many of Druck's competitors have noticeable span drift in their measurement systems which cannot be removed by way of taring.

PACE CM3 - where speed and accuracy combine

With PACE CM3, we present a new custom-built system where the fastest pressure controller, PACE, and our most accurate reference control module, CM3, are combined into one powerful, high-precision pressure measurement and control solution.

Need more information?

Click **here** to contact us, we're happy to help.

Per avere più informazioni
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