Calibration

Data logging for pressure gauge

Haven Automation’s ATEX-approved digital test gauge, the XP2i, has an intrinsically safe data-logging solution accessory. The XP2i gauge can either be upgraded to the data-logging version by use of a software key or can be purchased already upgraded.

Up to three thousand measurements can be logged for up to three months without the need for external power supplies or battery replacements. The DataLoggerXP programme handles all the transfer and saving of data to your computer’s hard drive which can be displayed on a Microsoft Excel spreadsheet, or if preferred, a comma separated text file. The tandem system is very easy to configure and use with any Windows equipped computer.

Pressure reading parameters can be set from the XP2i keypad and pressure readings can be recorded from 1 per second intervals, right up to 1 every 18 hours. The DataLoggerXP can record the averages, the averages and peaks or just the pressure indication, and random readings can be logged at the touch of a button on the XP2i.

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Low cost torque

How often do workshops spend money on tools calibrated only to find they were OK in the first place? Even worse, the wrench is out of calibration and may have been used in this condition for weeks! With the new Norbar TruCheck torque tester, these days are over. The Norbar TruCheck is affordable and features a half drive and covers the most common range of 33 to 350 Nm.

The basic TruCheck can be left on the shopfloor and is simple to use, with no interchangeable settings. The TruCheck Plus version allows users to select the units of measurement and also whether the torque wrench is click or dial type.

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First Accreditation of Internet-enabled calibration

Agilent Technologies UK Limited, based in South Queensferry in Scotland, was recently granted the first ever calibration accreditation that uses Internet-enabled technology to make measurements of complex reflection and transmission coefficients on radio frequency and microwave devices. The system is known as iPMMS and is a service of the UK National Physical Laboratory (NPL). iPMMS (Internet Primary Impedance Measurement System) is NPL’s first measurement service to make extensive use of the Internet to realise a measurement capability. The Internet forms an extended link between the client’s measuring instrument—in this case a Vector Network Analyser—and NPL’s dedicated software. iPMMS software performs several functions including controlling the measuring instrument, interfacing with the equipment operator and collecting readings from the instrument. It performs corrections during calibration and calculates the measurement results including evaluation of the uncertainty of measurement. The result is a measurement capability that is of comparable accuracy to the UK’s primary national standard facility. Traceability to SI units is obtained by means of calibration data for an individual client’s reference standard which in this case is a short length of precision air line. This data is stored on the NPL server and real-time corrections are applied during the measurement process.

The iPMMS service makes available extremely accurate traceable measurements to its clients, regardless of their geographical location. iPMMS has been operated successfully by organisations within Europe, the Americas and the Asia-Pacific region. The availability of highly accurate Internet-enabled measurement facilities, such as iPMMS, together with international standards for their accreditation (i.e. ISO/IEC 17025) means that top tier measurement services can now be realised and assessed independently in a harmonious manner at any location in the world.

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TRIMOS ALTIA High Spec

The trim new range of Trimos Alfa Height Gauges offer unrivalled portability and accuracy for most workshop measuring situations at a budget price.

Multiple pitch functions are accessed through a simple keypad and displayed on a high definition digital display.

- Surface distances
- Depths
- External, internal diameters, centreline distances
- Angles
- Coordinate datums

For further information visit www.qualitytoday.co.uk

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