Considering The Use Of Wireless Technology For Taking Fluid Pressure Readings Throughout A System or Installation. Based On The PT-RF System From Stauff Anglia

The PT-RF series of pressure transmitters are an alternative solution for universal pressure measurements for fluid technology applications, which will provide benefits for system operators, maintenance personnel and repair technicians as well as for original equipment manufacturers. The advantages resulting from the use of this new technology for system operators, maintenance personnel and repair technicians are clear:

Measurements can be carried out very easily, without extensive training and within a few seconds at the press of a button, and then documented in a reliable process. Unscrewing and re-installing pressure gauges or other measuring and display devices is not required. Potential hazards for personnel, machines and the environment, from leaked residual oil in the test hose or leaks at the measuring point, as well as ingress of dirt into the system (e.g. in dusty environments) can be effectively excluded. Original equipment manufacturers will also benefit from this new technology: If the pressure transmitters are installed at their factory already, the innovative technology can provide a competitive edge over alternative suppliers and open up specific advantages for the users, increasing the value retention of their own devices in the long term. If the pressure transmitters are installed directly in the system or pipeline for permanent use, they protrude only slightly more than conventional hydraulic test couplings and meet the highest demands with regard to space requirements and weight.

The pressure transmitters from the PT-RF series are integrated into fluid technology installations and systems permanently or temporarily, using the appropriate connection adapters. The energy required for a measurement is transferred to the pressure transmitter via the antenna of the reading device using wireless RFID technology. This means that the pressure transmitters require neither internal nor external power supply and are completely maintenance-free. The hand-held readers transfer the energy required for a measurement to the pressure transmitter using RFID technology. All that is required is a maximum distance of 1.5cm / 0.6 in from the antenna to the tip of the pressure transmitter for the duration of the measurement. When the pressure transmitter is activated by the press of a button, a current measured value is determined within only 0.5 seconds and then immediately transmitted back to the reading device together with other relevant information and then output on the illuminated display and stored. Over 15,000 of these measurement sets can be stored in the internal memory of the device.

The PT-RF-SET complete system is compiled in different versions according to customer requirements. All complete systems are supplied in a handy carrying case containing individually shaped foam inserts for a maximum of 10 pressure transmitters and 10 process connection adaptors:

The transmitter is manufactured using Stainless Steel 1.4306 with a Polyamide Cap and Viton Seals and the Reader housing is made of ABS.

The PT-RF system can be used for both liquids and gases.

**Full Technical Details including Battery Life | Temperature Considerations | Electrical Data / Interface Protection Rating can be found on this page with the catalogue and operating manual**

**PC Software**
The software included with the delivery allows transmission of the stored measured values from the reading device to the PC, subsequent evaluation and export, e.g. to Microsoft Excel®

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