Pepperl+Fuchs GmbH – Lilienthalstraße 200 – 68307 Mannheim

Please indicate the following contact information for publication:
Telefon: +49 621 776-2222, Fax: +49 621 776 -272222, www.pepperl-fuchs.com, pa-info@de.pepperl-fuchs.com
Editorial contact: Irmtraud Schmitt (Phone: ...-1215, Fax: ...-2505, ischmitt@de.pepperl-fuchs.com)

WirelessHART in Applications

WirelessHART products from Pepperl+Fuchs have been available for about six months now. In this short time, requests submitted for a few practical projects have opened up a wide range of different application fields for WirelessHART. This article highlights some of these application areas.

WirelessHART is ideal for transferring measured values gathered to monitor processes and system components. As a result, the temperature of the coils on pump motors, the fill levels of operating fluids such as coolant or lubricants, the blockage of screens in wastewater treatment plants or clogging of filters via measuring the differential pressure can be monitored conveniently, to name a few examples. Plant availability is actively improved because maintenance information is sent to the control room well in advance.

Moreover, WirelessHART helps you further optimize production processes. For example, the coolant temperature can be measured regularly to allow other process parameters to be adapted accordingly. Temporary measurements can be used to gather information about the process in order to implement corresponding changes in the process control. In addition to increasing the product quality, this can also decrease the scale of required resources and save costs.

The new measuring points are quick and easy to integrate. Just a few regulations must be taken into consideration when installing these new units: If the new device is located within visual range of an existing WirelessHART device, a radio link is established automatically and added to the network. The measured values can be accessed from the Modbus or HART OPC server via the WirelessHART Gateway of the control room.

Key words: WirelessHART, WirelessHART Gateway, WirelessHART Adapter, WirelessHART Temperature Converter, Applications

Author: Dipl.-Ing. Gerrit Lohmann
Product Manager Interface technology
Division Process Automation

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Fig. 1: Pepperl+Fuchs WirelessHART products

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