

OPTISONIC 6300 XT: Non-intrusive flow measurement in hot applications

Duisburg, October 28, 2009: KROHNE has added a new sensor variant to its product range of clamp-on ultrasonic flowmeters for measuring liquids: the new OPTISONIC 6300 XT for high temperature applications. It allows for a non-intrusive measurement of fluids with temperatures up to 200 °C or 392 °F.



OPTISONIC 6300 XT clamp-on flow sensor

The sensor and connection box of the OPTISONIC 6300 XT are made out of stainless steel, special transducers are integrated in the sensor construction, and a red coloured protection sleeve for the signal cable is provided to prevent damages from hot pipes. The OPTISONIC 6300 XT is available in two sensor types; small and medium, applicable for diameter sizes DN 15 to DN 400.

Target applications and markets for the OPTISONIC 6300 XT include heated hydrocarbons, molten sulphur, thermal oil, heat traced MDI, carbamate in the petrochemical and chemical industry, hot water for district heating and condensate in the energy industry and CIP/SIP processes in the food and beverage and pharmaceutical industry. In these applications, OPTISONIC 6300 XT offers many benefits as it is easy to install, increases safety and it provides accuracy and reliability.

Easy installation

The OPTISONIC 6300 XT can be installed on heated and insulated pipes without the need to cool down or shut down a process. This saves substantial installation costs. The innovative construction of the OPTISONIC 6300 is one of the key distinctive features enabling an immediate startup within 15 minutes. It does not require a specialist, nor training and no special tools to do so. Special XT transducers are integrated the sensor construction. The sensor can be easily fitted on a pipe with its fixing units. A signal strength indicator on the converter displays helps to choose the optimal positions of the transducers.

Safety first

Many high temperature applications demand safety precautions to be taken. Not having to cut the pipe for the installation of a flowmeter improves the safety of the process and more importantly the safety of the people installing the meter. In addition, a clamp-on measurement limits potential leakage points.

Reliable and accurate measurements

The OPTISONIC 6300 XT has a highly robust clamping mechanism suited for industrial use. The instrument monitors fluid anywhere, regardless of high liquid temperatures, pipe sizes, or pipe material with or without a liner. The tight and robust 316L screw connection of the signal cable to the stainless steel sensor can be positioned under a movable angle. The system withstands harsh environmental conditions and can be applied in hazardous areas as it is approved for use in ATEX Zone 1.

Easy maintenance

Minimal maintenance time is guaranteed with its easy (re-)greasing concept. Regreasing has never been so simple, safe and efficient as with the OPTISONIC 6300 XT and can be done in just a few steps. Because the transducers are integrated in the sensor construction, they are placed back at exact the same position as before and there will be no deviations in the measurement results before and after regreasing.

About KROHNE: Established in 1921, KROHNE is a family-owned business employing 2,500 people around the world with representatives on all continents. The company headquarters are based in Duisburg, Germany. KROHNE is a market leader in the development, and manufacture of innovative measurement technology and prides itself on exceeding customer expectations in terms of quality, performance capability, service and design.



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KROHNE Messtechnik GmbH
Ludwig-Krohne-Str. 5
D-47058 Duisburg

Contact:
Jörg Holtmann, PR Manager
Tel: +49 (0)203 301 4511
Fax: +49 (0)203 301 10 511

Website: www.krohne.com

E-mail: j.holtmann@krohne.com