PRESS RELEASE

Ultrasonic flow meter for low flow rates

With the development of the **ES-FLOW™ Flow Meter** featuring a new Ultrasonic Wave Technology, Bronkhorst High-Tech BV (The Netherlands) added a new series to their family of liquid flow meters. Bronkhorst is a pioneer in the field of micro to low flow liquid metering instruments. In addition to their series of instruments based on the thermal measuring principle, the company introduced a unique series of low-flow mass flow meters and controllers based on the Coriolis measuring principle, providing high accuracy, fast response and fluid independence. The new ES-FLOW™ Ultrasonic Flow Meter was designed to measure tiny volume flows from 4 up to 1500 ml/min with high precision, high linearity and low pressure drop, using ultrasound in a small bore tube. Liquids can be measured independent of fluid density, temperature and viscosity. Thanks to the combination of a straight sensor tube with zero dead volume the flow meter is self-draining. The orbital TIG-welding allows hygienic connections so the instrument can be used for hygienic applications. For non-hygienic applications, the flow meter can also be equipped with compression type fittings. Wetted parts are made of stainless steel, the exterior design is rated to IP67. The user interface is a capacitive touchscreen with a TFT display to operate and readout the instrument. The on-board PID controller can be used to drive a control valve or pump, enabling users to establish a complete, compact control loop.

Typical applications for the new low-flow liquid flow meters and controllers can be found in Food, Beverage & Pharma (e.g. additives, sterilization), Medical and Chemical (e.g. catalysts, reagents) and many other markets which require precision fluid handling e.g. fuel consumption measurement and dosing of colorants or lubricants in many industries.

For more information contact:
BRONKHORST HIGH-TECH B.V.
Nijverheidsstraat 2-6
7261 AK RUURLO
The Netherlands
Tel.: +31 573 458800
E-mail: info@bronkhorst.com

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