

ALTOSONIC V12 – The answer to rising gas prices

Duisburg, January 5, 2009: With the new ALTOSONIC V12 KROHNE has launched the next generation of ultrasonic gas flow meters for custody transfer applications. KROHNE has now answered the call for increasingly accurate flow meters in a world of increasing energy prices.

The ALTOSONIC V12 has 12 measuring chords, two of which are solely dedicated to diagnostic functions. Once commissioned, it continuously checks the operating status. The positioning of the chords in five horizontal parallel planes compensates for swirl and thus provides reliable measurements even with highly distorted flow profiles.



**ALTOSONIC V12:
ultrasonic gas flow meters for
custody transfer applications**

The diagnostics in ALTOSONIC V12 reliably assess deposits, contamination or changes in wall roughness so that maintenance can be scheduled according to the actual needs.

In the development of the ALTOSONIC V12, KROHNE focused on two significant problems that customers encounter and which cannot be satisfactorily addressed by existing ultrasonic flow meters:

The first challenge was how to transfer the calibration curve obtained under ideal conditions in the high-pressure test rig to the real-life measuring station with its headers, strainers, bent pipes, etc. In order to solve this, hundreds of flow profiles in all kinds of applications were analysed as part of the product development. This has resulted in the situation that the ALTOSONIC V12 is now the first ultrasonic flow meter capable of complying with the ISO17089 and AGA9 standards having 5D straight inlet requirements without using a flow straightener.

The second challenge concerned self-monitoring of the flow meter during operation. Or in other words, how accurate is billing going to be after a certain period of operation? Applying the proven reflecting technique, the meter is able to detect not only changes in the flow profile, but also the changes in the cross sectional area. Though this, the ALTOSONIC V12 is capable of assessing process changes that existing ultrasonic flow meters cannot even detect.

The meter is available in sizes DN 100 – DN 600, an installation length of 3D, and a

maximum operating pressure of 150 bar. It is compatible with commonly used protocols and can be seamlessly integrated into any existing infrastructure.

About KROHNE: Established in 1921, KROHNE is a family-owned business employing 2,510 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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