

Calibration – sharing ambitions

Leading metrology institutes with internationally recognised high pressure flow facilities are currently in the process of bringing down the uncertainty from ~0.2% to 0.16%, with incremental steps of 0.02%; while at another location construction has started for a new high pressure natural gas calibration facility with the aim of bringing the uncertainty down to 0.10%.

The increasing demand for measurement accuracy and repeatability is driven by increasing prices and expanding (inter-)national trade. Large amounts of natural gas transactions take place annually. These transactions have to be accounted for at custody transfer points. The financial risk associated with measurement error and uncertainties are high and continue to grow with increased trade volume. How to further reduce this risk while achieving equal measurement results, independent of when, where and by whom they were measured, is the challenging question.

As a respected meter manufacturer who lives gas meter calibration daily, we feel at home with such a challenge. Performing hundreds of meter calibrations per day is what we live for! Besides manufacturing all kinds of gas meters, we design and manufacture flow test facilities. Reference meters for numerous flow, test and calibration facilities around the world have been built by Elster-Instromet.

Mainly driven by the trading gas companies, ambitious targets are set. Selecting the best metering technologies, incorporating lessons learned into metering station design, and contributing to the development of new industry standards through technical committees, as well as

calibrating meters as closely as possible to the (high pressure) operating conditions are a few examples of how we can help industry to achieve these goals. All within affordable costs related to the associated financial risk.

Are you surprised to see that the leading gas metering company is able to incorporate the lessons it has learned, thus enabling the world of gas metrology to reach a new world class level? Elster-Instromet is a company widely known for its 'pushing the limits' attitude. Building on the name and foundation established in past decades, you will find us involved with many calibration projects in pursuit of our vision.

While utilising these flow test facilities for turbine or ultrasonic meters sold to our valued customers at one end, we are at the same time supplier of calibration technology and master meters required for those flow facilities to operate.

'Sharing ambitions' is a phrase that summarises our vision. It is our ambition to bring global gas metrology to a higher level; sharing this with other organisations creates the opportunity to start a wonderful synergetic operation. The results that are achieved generate profit for the users.

Sharing ambitions, a step closer to realising them.



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