

Faith or Fact: What does measurement accuracy actually mean?

The dominant topic in the realm of gas distribution nowadays is "Smart Metering" – particularly for residential consumers. Here, legal changes at the moment are leading to an increased pressure to take appropriate action.

And yet, besides all the discussions about efficient remote data transfer, the subject of measurement accuracy within a network is still pertinent. Measurement accuracy plays a particularly decisive role, where large volumes are transported under high pressures, i.e. in the transport and distribution networks. Gas transmission companies – especially those conducting trade across the borders – have had this subject on their agenda for some time, as a minimum negative deviation can lead to enormous financial losses.

In some cases they are very successful at this, and every now and then they can even achieve the truly brilliant result, where the measurements of the incoming and outgoing gas volumes do not deviate by more than 0.1% from one another. This is an excellent result, judging from the external influences that have an effect here.

In order to get such a good result, massive efforts are required in all areas. This could be in the selection of products, the measurement system design, or even the intelligent choice of inter-combinable components. Every step taken contributes to the aim of further minimising faults and deviations.

We at Elster-Instromet are of the opinion that only the combination of all of the measures mentioned, in conjunction with made-to-measure software, comes closest to achieving the ideal conditions. For this reason, we place a lot of value on individual components having the highest possible level of precision, whether they are turbine gas meters, ultrasonic gas meters, flow computers, gas chromatographs, or other devices.

But also working closely together with national metrological institutions, as well as high-pressure test rig operators, helps us to make a significant contribution to ensuring optimum measurement results.

The interplay of the components with an optimum design and our Supervisory Software ISS offers, as far as we are concerned, a maximum in safety. Combined with the corresponding diagnostic functions and visualisation options, with a range of inter-combinable products we offer you every opportunity to optimise your measurement and to be aware of what is happening in your systems.

But one thing is sure: in the same way that "owning" is better than "buying", "fact" is better than "faith".

If you would like more "facts", just ask.



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