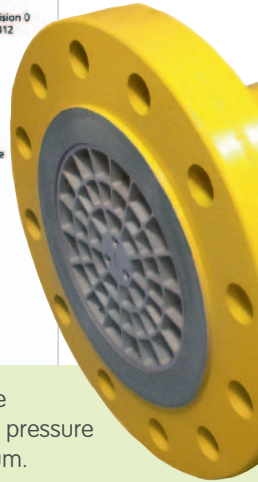


## Successful market launch of turbine gas meters

# SM-RI-2: the new reference in gas transport

Thanks to its unique performance characteristics, the new SM-RI-2 has already earned the title of being "particularly valuable" just a few months after obtaining MID approval.



The new product, manufactured by Elster-Instromet, available from DN 200, is particularly convincing thanks to its large number of special features and was also chosen as the reference for the new NMI high-pressure gas test rig project 'Euro-Loop': Out of a total of nine mechanical master meters, six turbine gas meters from the new SM-RI-2 series have been supplied (5 DN 400 and 1 DN 250). The remaining three meters are Elster-Instromet products from the established SM-RI-X and IRM-1 HP product lines.

The team that developed the new SM-RI-2 could probably not have received any better endorsement and any greater praise than being awarded the contract from the internationally acclaimed metrology institute NMI/NL for the manufacture of these master meters. This is certainly one of the highlights following several years of product development beforehand and the market launch of the product.

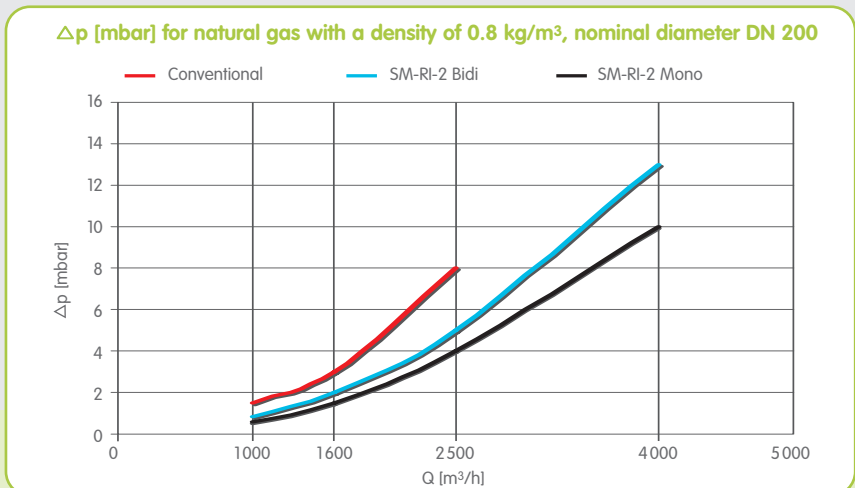
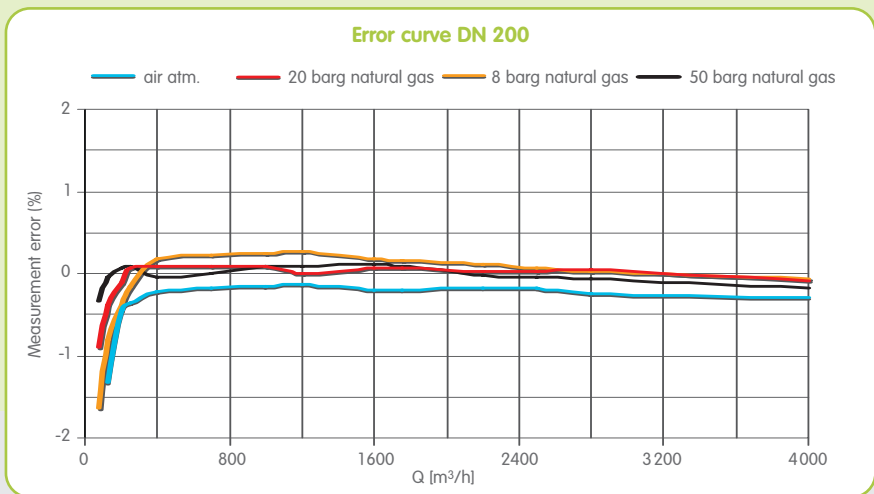
The new product is particularly convincing thanks to its extended capacity (identical to the ultrasonic gas meter) and its significantly reduced pressure drop behaviour. In addition, it is also the world's first turbine gas meter for bi-directional applications. This unique innovation emphasises, once again, Elster-Instromet's competence as the forerunner in the development of measuring technology solutions in the interests of our customers.

One positive feature is the extended capacity of the SM-RI-2, which enables gas stations to be constructed more cost-effectively, since, for example, a

$Q_{max}$  of 4000 m<sup>3</sup>/h can now be achieved with a tube nominal diameter and meter nominal diameter of 200 mm instead of 250 mm. All of the larger meter sizes also have this advantage. Further operating costs can also be saved thanks to the optimised pressure drop behaviour of the

SM-RI-2. This reduces expensive system components needed for pressure recovery to a necessary minimum.

The 'standard' equipment of the SM-RI-2 leaves little to be desired. The low-temperature housing, the metal flow condition-





ner and at least one HF sensor come as standard. The bi-directional version actually comes with 2 HF sensors. From a nominal diameter of DN 400 upwards, the meters of all pressure ratings are also fitted with a professional, automatic oil lubrication system, in order to save our customers having to visit a station in order to have the bearings lubricated, as has been the case up until now.

The new Multi-index II with a metal housing is used as the index head, which, in the case of the bi-directional version, is fitted with two separate individual indexes including a return stop device. In addition to the standard NF reed contacts, the Multi-index II can also be fitted with two MF slot sensors. At the beginning of 2009, the built-in encoder index will also be available.

In accordance with the MID Directive, SM-RI-2 units are supplied with a measuring range of 1:20. The error limits are comparable to those of the long-established and conventional SM-RI-X model produced by the same developers at our company.

You can also obtain further details of our new product from the new SM-RI-2 datasheet. The quickest way of obtaining this datasheet is to download it at [www.elster-instromet.com](http://www.elster-instromet.com). We are pleased that you are interested in our products.