

Range of products
and services



Today, the responsible handling of energy resources is becoming ever more important. The growing demand for energy is leading to a rapid rise in energy costs. Natural gas is an important energy source. It is becoming more significant as a new market commodity and an economic source of energy (compared with oil, for example). These simple economic facts mean that in the future there will be an ever growing demand for precise, highly developed metering systems to satisfy the needs of gas suppliers and gas transmission companies.



Frank Michels

Vice President
Marketing & Sales Metering

At Elster-Instromet everything is centred on the theme of "gas measurement and control". As part of the Elster Group, we develop, produce and distribute products and systems for gas metering and gas pressure regulation. Exemplary quality and an innovative spirit have made us a worldwide market leader, as well as a reliable partner for numerous customers.

We also invest our energy in our sales and marketing structure. You can find Elster production plants at 38 locations on all the continents. In many countries, our branches and agencies also offer a plant- and customer-specific service. Our engineers, product specialists and

Elster-Instromet has become a worldwide market leader for state-of-the-art gas measurement and regulation, electronic systems, and as a provider of modular skids. Our status as a worldwide technology leader is also reflected in the entrepreneurial culture of our company.

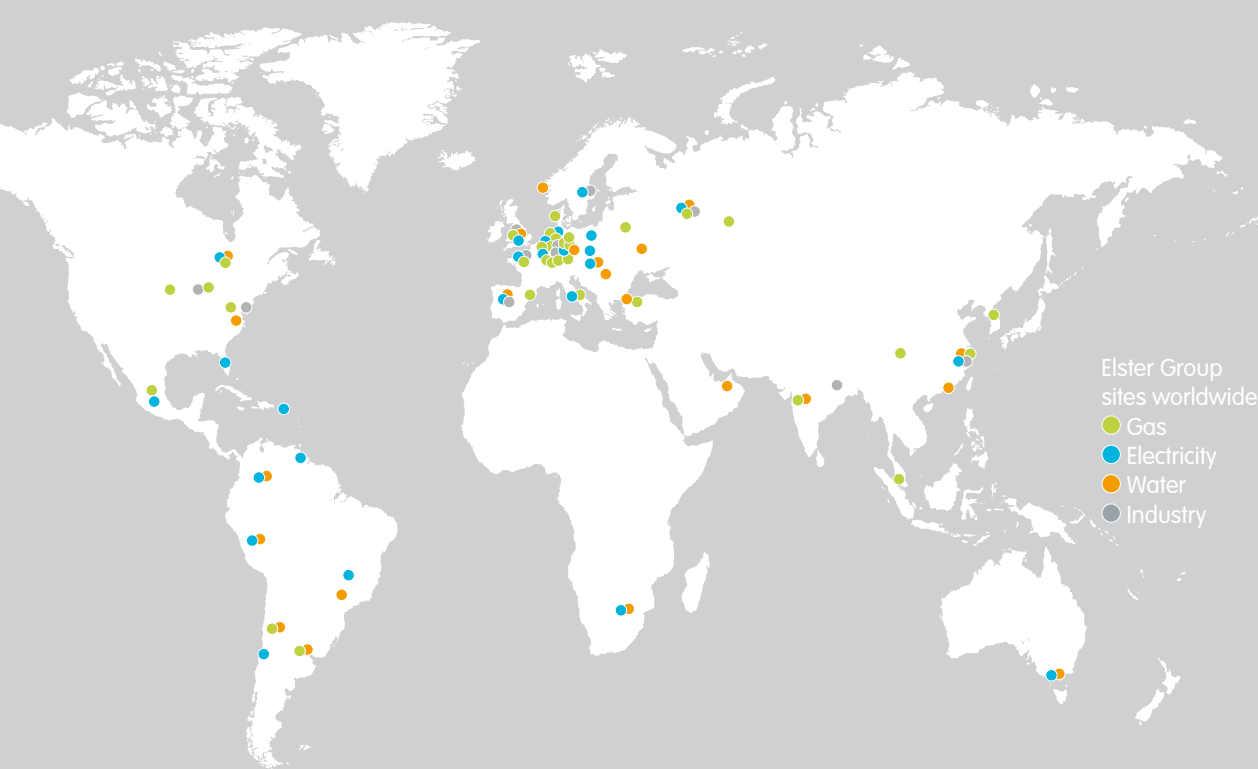
sales and marketing employees are happy to answer your technical questions and inform you of the latest innovations.

Our company's working atmosphere is characterized by a team spirit and constructive cooperation, in our dealings with our employees but also, and above all, with you, our customers. By staying in continual dialogue with you, we get to know your special requirements and can meet them with made-to-measure products and services. Whatever these are, and whatever else Elster-Instromet can do for you, you can find out about it in this brochure.

We are also happy to offer you detailed advice. Give us a call and make an appointment.

Frank Michels





We are happy to be measured by the degree of your satisfaction

Innovation, quality and safety have always provided the basis for Elster-Instromet's success. For over 170 years we have had a major bearing on developments in gas measuring and control equipment. Whether it's a matter of regulating or measuring, or recording, transmitting or evaluating data: Elster-

Instromet offers you solutions for every field of application. Tailored to your specific requirements, as individual components or as a complete system.

Industrial companies, trading companies and energy suppliers value Elster-Instromet as a reliable partner. Our customers' high quality requirements are also our requirements. We fulfil these requirements with high-quality products and made-to-measure services, as well as a number of service support points, sales outlets and production sites worldwide.

The responsible use of valuable resources is an important pillar of our corporate philosophy. Environmentally-friendly manufacture, energy-saving operation ensuring a long service life, combined with the greatest possible degree of reusability are essential aspects of product quality, which we are

2000 employees

15 production plants
in Europe, Asia and Latin America

Quality Management
in accordance with ISO 9001 : 2008

Elster-Instromet is a company in the Elster Group based in Essen, Germany.



continually trying to improve upon. Thanks to intensive research and development, we are creating future-oriented solutions. Thus we confirm our position as a worldwide market leader, and we carry our customers with us to economic success.



Smart metering: metered for the future

Meter reading whenever you want it – quick, flexible and convenient by remote data transfer. Smart measuring equipment from Elster makes it possible. Elster offers energy suppliers an extensive range of products for all consumption data recording tasks for residential customers.

To promote the protection of the environment, European countries aim to preserve energy resources. Consumers should be aware of and regularly informed of their energy consumption. Smart metering is a new technology that provides regular consumption values using remote readout, making the end user's individual energy consumption more transparent. The consumer is thus able to systematically gain energy awareness and reduce energy costs. With innovative Elster gas meters for smart metering systems, automated meter reading is possible at any time, for example when moving house or changing supplier. Energy suppliers benefit from the highest possible level of flexibility. There is no longer the need to visit the customers or make estimations in the event of price alterations. Moreover, they are already satisfying the legal framework conditions which state that energy consumption is to be made transparent and readout and billing intervals are to be made shorter. For the attraction of being able to change the personal use of energy sustainably is much greater than in the case of annual consumption billing.

The Absolute ENCODER AE is a modern index, whose absolute meter reading can be read out via remote data transfer. For local communication purposes, the AE may be supplemented with various communication modules, which allow for cable-based or wireless data transfer. The diaphragm gas meter derives its energy from the mains pressure and thus operates independently of external energy

supply. Being incorporated into a data management system, the diaphragm gas meter with Absolute ENCODER presents an ideal basis for completely smart metering.

The electronic index is a smart option for implementing smart metering for diaphragm gas meters. It offers the possibility of querying historical data, displaying tariffs and switching an optionally integrated valve. The modular design allows the communication equipment to be retrofitted or the batteries to be changed even while it is installed.

A universal and open interface concept, the Universal Metering Interface (UMI), has been developed for connecting the communication modules to the meter. This allows the gas meter to be fitted or retrofitted with a communication module under economic conditions.

UMI may be universally implemented in measuring instruments for electricity, gas, water and heat meters, as well as in data concentrators, in-home displays and other units. Encryption, authentication and authorization mean that the system satisfies the most stringent security requirements.

The data is usually read out via a "customer interface", a so-called gateway, which communicates with the individual meters via a wireless or a cable-based connection. Using Internet-based applications, it is possible for both energy suppliers and consumers to check the current daily, monthly and annual meter readings. In addition to meters for smart metering, Elster's range of products and services also covers the necessary components for data communication and for networking the different system components.



A smart extension to proven technology

As an extension to the diaphragm gas meters, which have been proving their worth for decades, there are numerous variants available for smart gas metering and remote gas data transfer.



Absolute ENCODER AE

The Absolute ENCODER AE is an index for diaphragm gas meters with optoelectronic readout and digital transfer of the meter reading. The Absolute ENCODER AE combines the positive features of a mechanical and electronic index, and its communication modules allow it to satisfy a wide range of requirements. The Absolute ENCODER's consistent modular design minimizes the efforts and expenditure of installation, commissioning and data provision and ensures investment security for future applications.



Electronic index

The electronic index for diaphragm gas meters offers a display and further functions such as retrievable, saved historical data (e.g. consumption in the last 24 hours) and the possibility of displaying tariffs. Various communication protocols can be used for data transfer. The electronic index will be available as of the first quarter of 2011.



Smart valve

The integrated valve in the diaphragm gas meter, the "smart valve", allows the gas supply to be remotely connected and disconnected. The patented functionality has been tested by the independent institute KIWA Gas Technologie B.V. NL with positive results.

Energy suppliers count on Absolute ENCODER technology

One of the largest energy suppliers in Germany has now put its trust in Elster diaphragm gas meters with Absolute ENCODER technology, following a number of pilot projects. The advantages are obvious: no batteries in the metrology-relevant part of the meter, absolute meter readings, simple installation without additional costs involved in parameter setting, and an index whose service life corresponds to that of the meter. Furthermore, the interface design of the Absolute ENCODER index offers complete flexibility for installation. Elster is looking forward to being a reliable partner for you for future innovative product solutions.



Strong in performance and quality

Gas pressure regulation

Elster gas pressure regulators meet the highest demands for domestic, commercial and industrial gas supply.

Gas pressure regulators meet the highest demands concerning quality and capacity. A comprehensive range of gas pressure regulators from low pressure PN 0.1 up to high pressure PN 100/ANSI 600 is available. The applications range from low-capacity residential use for individual households, commercial and industrial uses up to the field of gas transmission where it is necessary to control high flow capacities. A large variety of safety features is available for all of the different pressure levels. In the medium-pressure range, the devices can have integrated safety shut-off valves or relief valves. Separate safety shut-off valves and relief valves are also available for high-pressure applications.

Regulators for low pressure

J42 meter service regulator

The J42 is an angled type meter service regulator for low-pressure domestic applications. It is available with or without an integrated low-pressure cut-off valve, which has an automatic reset.

- Diameter: DN 20
- Inlet pressure: up to 350 mbar
- Outlet pressure range: 10 – 40 mbar



J78 domestic service regulator

The J78 range is a compact, accurate and economical regulator. It is suitable for a wide range of commercial and industrial applications, including such OEM equipment as boiler and burner trains. The J78 offers positive lock-up, and is available in a number of sizes.

- Diameters: DN 15, 20, 25
- Inlet pressure: up to 350 mbar
- Outlet pressure range: 2 – 46 mbar

J48 and J90 industrial service regulators

The J48 / J90 series is a versatile range of industrial low-pressure regulators suitable for a wide range of pressure reduction applications. Several types are also available for angled installation directly onto the meter.

- Diameters: DN 20, 25, 32, 40, 50, 65, 80, 100, 150
- Inlet pressure: up to 350 mbar
- Outlet pressure range: 10 – 160 mbar (345 mbar for 100 & 150 sizes)



ZR meter service regulator

The ZR series of meter service regulators for low-pressure applications and for use with gas meters is available with or without an integrated low-pressure cut-off valve, which has an automatic reset.

- Diameters: DN 20, 25, 32, 40, 50 and DN 25 co-axial
- Inlet pressure: up to 100 mbar
- Outlet pressure range: 20 – 50 mbar
- DVGW approved, fire safe in accordance with DIN 33 822

HR and NDAF domestic service regulators

The HR / NDAF series of service regulators is intended for use with several meters in small, medium and large consumption units. Installation of the NDAF type is carried out via special co-axial connectors. They are available with or without an integrated low-pressure cut-off valve, which has an automatic reset.

- Diameters HR: DN 25, 32, 40, 50, 80, 100, NDAF: DN 25, 40, 50
- Inlet pressure up to 100 mbar
- Outlet pressure range: 10 – 50 mbar
- Inlet pressure resistance up to 16 bar
- DVGW approved, fire safe in accordance with DIN 33 822



Regulators for medium pressure

In accordance with Pressure Equipment Directive 97 / 23 / EC (PED)

M2R medium-pressure regulator

The M2R can be used for indoor and outdoor installations. Due to the basic modular concept, it is possible to supply a large number of different connections and equipment features

- Inlet pressure range: 50 mbar – 6 bar
- Capacity range: 6, 10, 25, 40, 50, 75, 100 m³/h
- Outlet pressure range: 18 – 100, 100 – 400 mbar
- Inlet pressure resistance up to 16 bar
- Temperature range: -20°C to 60°C
- DVGW approved, fire safe in accordance with VP 200

in order to meet individual customer requirements. The standard meter installation can be adapted by choosing from different inlet and outlet connections and can be made to suit a variety of needs, e.g. angled or in-line connections in accordance with European standards. Features include: built-in safety shut-off valve offering over

pressure protection, low-pressure cut-off valve with manual or automatic reset, limited capacity relief valve, safety diaphragm, optional fire resistance.



MR and MAF...E medium-pressure regulators

The MR series of gas pressure regulators is spring-loaded and fully inlet pressure balanced. The devices have a standard integrated safety shut-off valve offering overpressure slam shut and/or underpressure slam shut and an integrated limited capacity relief valve. It is a member of the MR regulator family, which is known for excellent regulation and lock-up behaviour as well as easy maintenance. The MR series is used in industrial or commercial applications and small stations. The regulators are available in flanged and threaded versions. The MAF...E series installation is via a special co-axial connection.

- Diameters: DN 25, 40, 50
- Inlet pressure range: up to 1, 5 or 6 bar, the devices operate starting from a differential pressure of 4 mbar, fire safe up to 5 bar
- Outlet pressure range: 20 – 300 mbar
- Inlet pressure resistance up to 16 bar
- DVGW approved, PN 1 / PN 5: fire safe in accordance with DIN 33 822

J123 medium-pressure regulator

The J123 is a spring-loaded and fully inlet pressure balanced distribution and industrial regulator that can also be operated by auxiliary systems and

- Diameters: DN 50, 80 & 100 (J123HP 50 & 80)
- Max. inlet pressure: 4 bar
- Outlet pressure range: 10 – 340 mbar (J123HP up to 1035 mbar)
- External impulse

is suitable for use as a monitor or as an active regulator. The J123 has been designed on a modular basis for in-line servicing. The J123HP is available where higher outlet pressures are required.





J125 medium-pressure regulator

The J125 series provides a full range of regulators for service applications where accurate pressure control is required. The units are ideal for industrial pressure reducing, metering stations and for district distribution. The J125 is a spring-loaded regulator; several valve orifices are available to cover the full inlet pressure range. The devices have a standard integrated safety shut-off valve offering overpressure slam shut and/or underpressure slam shut and an integrated full or limited capacity relief valve. A monitor version is also available.

- Diameters: DN 20, 25, 40, 50
- Max. inlet pressure: 8.6 bar
- Outlet pressure range: 10 – 340 mbar
- No secondary diaphragm

Regulators for high pressure

In accordance with Pressure Equipment Directive 97 / 23 / EC (PED)

MR PN 10 high-pressure regulator

The MR PN 10 series has a flanged connection and is suitable for commercial and industrial supply. The standard impulse is external. The devices are fitted with an integrated safety shut off valve and also have an integrated limited capacity relief valve.

- Diameters: DN 25, 50
- Inlet pressure range: 0.2 – 10 bar
- Outlet pressure range: 20 – 500 mbar
- Inlet pressure resistance: up to 16 bar
- Approved by DVGW



MR HP20 high-pressure regulator

The MR HP20 gas pressure regulator is spring loaded and fully inlet pressure balanced. The device has a standard integrated safety shut-off valve (SSV). Its modular design allows the regulator mechanism to be removed without disturbing the pipework. Routine servicing and maintenance hence may be undertaken under workshop conditions.

- Diameters: DN 50
- Inlet pressure range: 0.1 - 20 bar
- Outlet pressure range: 20 - 500 mbar
- Approved by DVGW



Axial flow valve high-pressure regulator

The AFV high-pressure regulator is a pilot-operated flexible element valve type for transmission, distribution and industrial use. The regulators are extremely compact and lightweight, easy to install and service, and provide a streamlined flow path for quiet operation. Axial flow valves are installed between the flanges of standard pipelines. Also used for pressure regulation, overpressure relief, flow control or on/off control.

- Diameters: DN 50 to DN 300
- Inlet pressure range: up to 100 bar, ANSI 150, 300, 600
- Outlet pressure range: 20 mbar – 42 bar
- Approved by DVGW

040 series field regulator

The 040 series has a simple design and a rugged construction. Dependable and versatile, this regulator is suitable for a wide range of regulation problems.

- Body: 1" BSPT / NPT / ANSI 150 / 300 / 600 RF
- Max. inlet pressure: 70 bar
- Outlet pressure range: 0.2 – 13.8 bar
- Other versions: 040-S all steel, max. inlet pressure 100 bar

Manufactured from high-grade material, the 040 series allows full inlet pressure retention in all major body and diaphragm case components. Also used for monitor applications or overpressure relief.



Safety devices



S100 and S200 slam shut valves

The S100 slam shut valve protects gas installations against dangerous overpressure or underpressure (S200) conditions and is normally fitted on the inlet of the regulator. The S100 incorporates a visual valve position indicator.

- Diameters: DN 50, 80 & 100
- Max. inlet pressure: 19 bar
- Trip-off range: up to 6 bar
- Temperature: -20°C to +70°C
- The S100 is BGC / V9 approved

J98 slam shut valve

The J98 slam shut valve protects gas installations against dangerous overpressure conditions and is normally fitted on the inlet of the regulator.

- Diameters: DN 150, 200
- Max. inlet pressure: 10 bar
- Trip-off range: up to 3.5 bar
- Temperature: -20°C to +70°C

The J98 incorporates a visual valve position indicator.



Stable quality for a long service life and high level of processing

Diaphragm gas meters are reliable meters for gas measurement

Diaphragm meters are displacement meters where the flow channels are designed to guarantee optimum flow conditions and a low pressure loss. All of the meters are approved for custody transfer measurement by the German PTB, and to EN 1359 by the DVGW. They are suitable for measuring natural gas and a variety of technical gases at up to 0.5 bar. The approved gas temperature range is -25°C to $+40^{\circ}\text{C}$. The diaphragm meters BK-G 1.6 up to G 100 are fitted with a pulse magnet as standard. This allows a low-frequency pulse generator of the IN-Z61 type to be retrofitted.

Domestic diaphragm meters BK-G1.6 to BK-G6

These meters are available in co-axial or two-pipe versions. The measuring unit operates on the principle of pneumatic control. This guarantees low noise, long-term stability and high accuracy, and allows the possibility of including mechanical temperature correction.

- Measuring chamber volume: BK-G1.6 / BK-G2.5: 1.2 litres, BK-G4: 1.2 or 2.0 litres, BK-G6: 2.0 litres
- Measuring range: BK-G1.6: 0.016 - 3 m³/h, BK-G2.5: 0.025 - 4 m³/h, BK-G4: 0.04 - 6 m³/h, BK-G6: 0.06 - 10 m³/h
- Temperature correction range (not BK-G1.6 V 0.8): -10°C to $+40^{\circ}\text{C}$ (standard), -25°C to $+40^{\circ}\text{C}$ (option)



Commercial diaphragm meters

BK-G10 to BK-G25

These compact meters are available in co-axial or two-pipe versions with a pressed steel housing. The measuring unit operates on the principle of pneumatic control. This guarantees low noise, long-term stability and high accuracy. Optionally the meters can be equipped with integrated temperature correction.

- Measuring chamber volume: BK-G10: 6 litres, BK-G16: 6 litres, BK-G25: 12 litres
- Measuring range: BK-G10: 0.1 - 16 m³/h, BK-G16: 0.16 - 25 m³/h, BK-G25: 0.25 - 40 m³/h



Industrial diaphragm meters

BK-G40, BK-G65, BK-G100

BK-G40, BK-G65 and BK-G100 are compact, light-weight industrial diaphragm gas meters that have been designed to meet the highest demands with respect to measuring accuracy and safety. The innovative new developments are based on the experience of many decades.

Optionally the meters can be equipped with integrated temperature correction.

- Measuring chamber volume:
BK-G40: 18 litres, BK-G65: 24 litres,
BK-G100: 48 litres
- Measuring range: BK-G40: 0.4 – 65 m³/h, BK-G65: 0.65 – 100 m³/h, BK-G100: 1.0 – 160 m³/h

Absolute ENCODER AE

The Absolute ENCODER index for diaphragm meters consists of a mechanical index which is opto-electronically scanned and read out. Data transfer security is significantly increased compared with the conventional transfer of pulses, since the meter reading is recorded and transferred as an absolute value. For further data transmission, various communication modules with standardized interfaces are available.



Chekker

The Chekker index uses a two-digit, coded number to check data, which is manually read out from domestic meters.

IN-Z61 low-frequency pulse generator

This pulse generator of the IN-Z family is a retrofittable low-frequency pulse generator for all Elster diaphragm gas meters BK-G1.6 to BK-G100.

- Applicable for all Elster diaphragm gas meters with pulse output
- Assembly without impairment of calibration validity
- Retrofittable (on request)
- Alarm contact (see versions)



Industrial gas meters – worldwide leaders

Mechanical and ultrasonic flow metering

Elster offers a wide range of different measurement devices in the field of gas transport and gas distribution. That comprises volumetric meters like diaphragm meters and rotary meters, as well as flow meters like turbine meters and ultrasonic meters.

Rotary gas meters Elster-Instromet RVG and IRM rotary gas meters are volumetric meters for gaseous media using the positive displacement principle. They record the gas volume under operating conditions. Electronic volume correctors can be used in order to correct the volume to the standard volume.



RVG-ST G10-G25

The compact meters RVG-ST G10 to G25 constitute the starter models of Elster-Instromet's rotary gas meter product range. Thanks to their small dimensions, they can be used as a possible alternative to diaphragm gas meters.

- Nominal diameters: 25 – 50 mm
- Flow range: 0.8 – 40 m³/h
- Measuring range: 1:20 to 1:50
- Housing material: aluminium
- Pressure range: 0 – 20 bar

Approved pursuant to MID, PED and ATEX

RVG G16-G400

Meters RVG G16 to G400 operate at load ranges of up to 1:160. Housings made from aluminium or spheroidal graphite iron can be provided, ensuring that the meters comply with the current HTB requirements. The bearings on the RVG are lubricated with oil, and servicing is easy to carry out from the front side of the meter. The RVG is fitted with two LF pulse generators and a tamper detection contact as standard.

- Nominal diameters: 40 – 150 mm
- Flow range: 0.6 – 650 m³/h
- Measuring range: 1:20 to 1:160
- Housing material: aluminium or spheroidal graphite iron
- Pressure range: 0 – 20 bar

Approved pursuant to MID, PED and ATEX



IRM-1 G16-G250

The IRM-1 rotary gas meter is based on the measuring cartridge system. This means that the metrological unit is contained in a measuring cartridge

- Nominal diameters: 40 – 100 mm
- Flow range: 0.5 – 400 m³/h
- Measuring range: 1:20 to 1:160
- Housing material: aluminium, spheroidal graphite iron or steel
- Pressure range: 0 – 16 bar
100 bar for high-pressure version

Approved pursuant to MID, PED and ATEX

which is sealed into the housing with O-rings and is thus mechanically separated from the housing. Another advantage is that the measuring cartridge can be replaced if repairs need to be carried out, without having to remove the meter housing from the pipeline. The IRM-1 can be optionally fitted with an integrated bypass, thus ensuring gas supply, even when the impellers are blocked. In addition, the IRM-1 is also available as a high-pressure version with steel housing for up to 100 bar.



IRM-3 DUO G400-G1000

The IRM-3 DUO meters round off the rotary gas meter portfolio. The combination of a compact design and two phase-shifted pairs of impellers allows flow rates of up to 1600 m³/h to be achieved with high pressures of up to 16 bar.

- Nominal diameters: 100 – 200 mm
- Flow range: 6 – 1600 m³/h
- Measuring range: 1:20 to 1:160
- Housing material: aluminium
- Pressure range: 0 – 16 bar

Approved pursuant to MID, PED and ATEX

Absolute ENCODER S1D

For use with our mechanical measuring devices, we offer intelligent index solutions which can help to optimize billing processes. The Absolute ENCODER index for mechanical

- Number of digit rollers: 8
- Temperature range: -20°C to +60°C
- Safety class: IP 67
- Interfaces: Namur / SCR / M-Bus
- ATEX approval: II 2G Ex ib IIB T4

gas meters consists of a mechanical index in which each individual digit roller is opto-electronically scanned and read out. The data is then continually transferred as a data word via a digital interface to a downstream device (e.g. volume corrector), whereby permanent data transfer security is guaranteed, compared with the conventional transfer of pulses.

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Turbine gas meters & quantometers are flow meters that display the flow volume in actual cubic metres. Quantometers are ideally used in non-custody transfer applications.



TRZ2 turbine gas meter

Elster-Instromet TRZ2 turbine gas meters are well approved and widely used within the field of gas distribution. They feature a patented measuring cartridge which is mounted using O-rings and is installed free of mechanical stress. It is therefore not affected by any installation effects or ambient influences. The TRZ2 standard version is equipped with permanently lubricated bearings and the index head. For pressure rating PN25 upwards, the manual oil pump comes as standard.

- Nominal diameters: 50 – 150 mm
- Flow range: 5 – 1600 m³/h
- Measuring range (LP air): 1:20 to 1:30
- Housing material: spheroidal graphite iron, cast steel, steel
- Pressure range: 0 – 100 bar
- Inlet and outlet section: > 2 DN

Approved pursuant to MID, PED and ATEX

SM-RI-X turbine gas meter

SM-RI-X meters are robust measuring instruments which are specially suited for transporting gas at high operating pressures. The SM-RI-X is equipped with an oil lubrication system and a metal index head as standard; a low-cost medium frequency pickup in the index head is optionally available for all nominal sizes. The SM-RI-X is also available as a special version for high-temperature applications up to 170°C (e.g. for power plants) and for measuring ethylene.

- Nominal diameters: 50 – 600 mm
- Flow range: 8 – 25,000 m³/h
- Measuring range (LP air): 1:20 to 1:30
- Housing material: spheroidal graphite iron, cast steel, cryogenic steel
- Pressure range: 0 – 100 bar
- Inlet and outlet section: > 2 DN

Approved pursuant to MID, PED and ATEX



SM-RI-2 turbine gas meter

The SM-RI-2 is the world's first turbine gas meter allowing optional bi-directional gas measurement. Furthermore, the product features an extended capacity (identical to the ultrasonic meter) and is notable due to its significantly reduced pressure loss behaviour. The SMRI-2 is made of cryogenic steel and equipped with a HF sensor as standard. For nominal size DN 400 upwards, an automatic oil lubrication system is delivered as standard.

- Nominal diameters: 200 – 600 mm
- Flow range: 32 – 40,000 m³/h
- Measuring range (LP air): 1:20 to 1:30
- Housing material: cryogenic steel
- Pressure range: 0 – 100 bar
- Inlet section: > 5 DN

Approved pursuant to MID, PED and ATEX





Absolute ENCODER S1

The Absolute ENCODER index for mechanical gas meters consists of a mechanical index in which each individual digit roller is opto-electronically scanned and read out. The data is then continually transferred as a data word via a digital interface to a downstream device (e. g. volume corrector), whereby permanent data transfer security is guaranteed, compared with the conventional transfer of pulses.

- Number of digit rollers: 8
- Temperature range: -20°C to +60°C
- Safety class: IP 67
- Interfaces: Namur / SCR / M-Bus
- Atex approval: II 2G EEx ib IIB T4

TurbinScope® diagnostic tool

This unique service is used to examine meter performance under real operating conditions. Data is collected on-site and is analyzed at the factory to determine meter and installation conditions. Possible outcomes of these analyses include discovering misreading due to installation effects, turbine blade damage, bearing damage and accuracy forecasts at minimum flow. This method has been approved by the Dutch NMI.

Recording of:

- Installation effects
- Flow pulsations
- Working conditions of turbine meter bearings
- Error forecast at low flow rates



Q and Q75 quantometers

Q and Q75 quantometers are meters for non-custody transfer gas measurements and are renowned in industry and trade alike as robust and precise turbine flow meters. They are good value and are suitable for highly accurate and reliable measurements even in high flow and pressure ranges.

- Nominal diameters: 50 – 600 mm
- Flow range: 6 – 25,000 m³/h
- Measuring range (LP air): 1:20 (factory test)
- Pressure range 0 – 100 bar

Approved pursuant to PED

QA and QAe quantometers

QA and QAe quantometers are flow meters for non-custody transfer gas measurements that display the flow volume in actual cubic metres. Depending on the version, the volume is displayed on a mechanical (QA) or

- Nominal diameters: 25 – 150 mm
- Flow range: 1.6 – 1600 m³/h
- Measuring range (LP air): 1:10 to 1:20 (factory test)
- Pressure range: 0 – 20 bar (fuel gases < DN 40 up to 4 bar)

an electronic index (QAe). QA and QAe quantometers combine the high accuracy of the Q / Q75 series of quantometers with low weight as a result of their aluminium housing.



Approved pursuant to PED

Ultrasonic gas meters have for many years been in use all over the world in the field of gas metering and have proven their reliability in the offshore sector on platforms, as well as in gas transport and gas distribution. Since they operate without any moving mechanical parts, they are particularly robust, require almost no maintenance and do not create any loss in pressure.



Q.Sonic ultrasonic gas meter

The Q.Sonic multi-path ultrasonic gas meter from Elster-Instromet is ideally suited for custody transfer measurements of natural gas. The patented arrangement of measuring paths in conjunction with sophisticated ultrasonic sensors and digital signal processing account for maximum measurement accuracy with excellent long-term stability.

The flow profile analysis of the Q.Sonic allows the otherwise conventional use of a flow conditioner to be dispensed with in many applications.

- Nominal diameters: 100 – 1600 mm
- Gas pressure up to 150 bar (optionally to over 400 bar)
- Gas temperature up to 120°C
- Flow velocity up to 33 m/s
- 3, 4 or 5 measuring paths (two double reflection paths combined with 1 to 3 single reflection paths)
- Integrated display
- Integrated conversion (PTZ)
- Impulse, digital and analogue outputs
- RS 485 and RS 232 serial interfaces
- MID approved, accuracy class 1.0
- For use in Zone 1 hazardous areas

CheckSonic ultrasonic gas meter

The CheckSonic is available as a two-path ultrasonic gas meter with two single reflection paths. The redundant design ensures high reliability, while the path layout ensures the flow profile is taken into consideration. This makes it the ideal measuring device for many gas metering tasks where official calibration is not required.

- Nominal diameters: 80 – 1600 mm
- Gas pressure up to 150 bar (optionally up to over 400 bar)
- Gas temperature up to 120°C
- Flow velocity up to 33 m/s
- 2 measuring paths
- Integrated display
- Integrated conversion (PTZ)
- Impulse, digital and analogue outputs
- RS 485 and RS 232 serial interfaces
- For use in Zone 1 hazardous areas



A range of concepts is available for the various applications. The Q.Sonic achieves maximum accuracy. The CheckSonic, on the other hand, is the robust gas meter for measuring tasks in industry and for non-custody transfer applications. The following other versions are available: FlareSonic for flare gas measurements, TwinSonic – a meter with a redundant electronic unit, and 'Hot Tap' versions of the CheckSonic or customized solutions.

Calorific value measurement With the gas chromatograph EnCal 3000 and the gas-lab Q1, Elster-Instromet offers two top-quality calorific value measuring devices. The most up-to-date components guarantee precise analysis results in the respective fields of application.

EnCal 3000

The EnCal 3000 is a gas chromatograph specially designed for fiscal measurements of energy and other properties of natural gas. This state-of-the-

- Repeatability < 0.01 %
- Electronic pressure control
- TCP / IP communication
- C6+ within 3 minutes
- C9+ within 5 minutes
- Other applications: THT, H2S, hydrocarbon dew point, biogas analysis

art analyzer uses chromatography components based on the latest Micro Electro Mechanical Systems (MEMS) and capillary columns. This results in highly repeatable and highly accurate analysis results. The compact analyzer contains the analytical hardware, sample conditioning, stream selection and all required electronics for stand-

alone operation. The rugged, ATEX-approved design of the housing allows the analyzer to be used in outdoor environments with ambient temperatures between -20°C and +55°C. Communication with the EnCal 3000 can be established using the TCP/IP connection or the two available Modbus ports. The software package RGC 3000 is used to configure the EnCal 3000. The TCP/IP connection offers a multitude of communication possibilities, such as networking capabilities, remote control and even access over the internet. By using Modbus over TCP/IP, a variety of instruments such as flow computers can be connected to the EnCal 3000.



gas-lab Q1

The gas-lab Q1 is a gas quality analyzer for generic natural gases. The device features fast response, measures continuously and does not use a flame. It allows online measurements of the calorific value, Wobbe index, standard density and CO₂ concentration, as well as other characteristic gas parameters which are necessary for billing and control purposes. The measurement system is made up of two components: an explosion-proof measuring unit and a control unit. The control unit can be installed up to 1000 m away from the measuring unit and is used for control, evaluation and display purposes, as well as for official data registration and communication via DSfG or Modbus interface.

- Fast, continuous measurement; T90 < 30 seconds, or optionally T90 < 10 seconds
- Especially suitable for control and protection of gas turbines
- Low investment and maintenance costs
- Accuracy: hs: ≤ 0.4 %, p: ≤ 0.8 %, xCO₂: ≤ 0.2 mol %

Thorough, efficient and versatile

Recording – correcting – transmitting

The data loggers, volume correctors and communication components from Elster-Instromet distinguish themselves with these qualities.

Data loggers The battery-operated data loggers are used for recording data and performance values in the fields of gas and water supply. Communication modules enable remote data readout for automated process analysis and billing.

DL210 data logger

The DL210 data logger is suitable for use in small gas stations without volume correctors. The connection to Absolute ENCODER indexes ensures safe and reproducible data logging. Discrepancies between the mechanical index in the gas meter and the electronic index in the data logger are not possible. Data relating to the recorded meter readings and consumption values can be transmitted remotely using the integrated GSM/GPRS modem based on different available technologies.

- Data recording and transmission for the supply of gas and water
- ENCODER interface or alternative pulse interface
- Status input
- GSM/GPRS modem with antenna integrated into the housing
- Station monitoring using spontaneous reporting function by text message
- Monthly, daily and measuring period archives



DL220 and DL220/W data loggers

With the battery-operated DL220 data logger it is possible to read out meter readings and consumption data via a remote data transfer system even if there is no external power supply and no telephone network. To this effect, the data logger has an integrated GSM/GPRS modem.

The DL220/W version (without display and keyboard) allows data recording and transmission for network monitoring in conjunction with water meters for measurements under difficult ambient conditions (e.g. in wells).

- Data recording and transmission for the supply of gas and water
- Associated apparatus for Zone 1 hazardous areas
- Two pulse inputs (intrinsically safe)
- Two pulse outputs
- Integrated GSM/GPRS modem for data communication without mains power supply
- Station monitoring using spontaneous reporting function by text message

DL240 data logger

The battery-operated DL240 data logger offers four input channels, which act independently from one another, for recording and registering the

- Data recording and transmission for the supply of gas, water, district heating and electricity
- Associated apparatus for Zone 1 hazardous areas
- Four pulse inputs
- Two pulse outputs
- Battery-operated device. Mains power unit available
- Special functions, such as tariff switchover, supply monitoring, etc.

volume pulses from gas and water meters. For non-custody transfer applications it is also possible to connect meters for other media. In doing so, the impulse lines from both intrinsically safe and non-intrinsically safe devices may be connected directly, without the need for additional isolating amplifiers.

A power supply unit and various modems and communication modules are available, which can also be installed and commissioned

later, without damaging the official seals. The DL240 is therefore adaptable in every regard.



Volume correctors The EK series offer compact battery-operated electronic volume correctors suitable for use in Zone 1 hazardous areas. The units feature data logging functions, for which manual or automated readout options are available, using accessories.



EK220 volume corrector

The EK220 with MID approval is a compact, battery-operated, electronic PTZ volume corrector. The layout and contents of the archives of the integrated data logger can be configured. A second pressure sensor may optionally be used to monitor the inlet or the outlet pressure of a system as well as the volume correction. For connection to a SCADA system or for reading out data for billing systems, the EK220 has a configurable serial interface. Various communication protocols for data communication round off the volume corrector's capacity range.

- Suitable for use in Zone 1 hazardous areas
- Three digital inputs
- Pressure range up to 80 bar
- K value calculated in accordance with S GERG 88, AGA 8 (GC1 or GC2), AGA 8 DC92, AGA NX-19 or fixed value
- 2nd pressure sensor for monitoring inlet or outlet pressure (option)
- Mains-free operation
- Four digital outputs
- Archives with flexible configuration
- Serial interface RS232/RS485
- Various communication protocols: IEC 62056-21, Modbus

EK260 volume corrector

The EK260 with MID approval uses an interface for connection to the Absolute ENCODER index. Using the integrated data logger, it is ideally suited for use in commercial and industrial stations. The registering and transmitting of the original meter readings from the gas meter offer absolute certainty for billing. The internal interface allows the connection of modems or function extension units. The data from the unit may thus be read automatically and transmitted to the process control systems or billing systems.

- Suitable for use in Zone 1 hazardous areas
- Three digital inputs
- Connection to Absolute ENCODER index
- Pressure range up to 80 bar
- K value calculated in accordance with S GERG 88, AGA 8 (GC1 or GC2), AGA NX-19 or fixed value
- Mains-free operation
- Four digital outputs
- Technical calibration logbook
- Serial interface RS232/RS485
- Various communication protocols: IEC 62056-21, Modbus



Modems and function extension units These components are used for data communication in conjunction with the volume correctors from the EK series and also offer additional functions.

EM260 industrial modem

The EM260 industrial modem is used for data communication with a volume corrector from the EK series via either the analogue or the GSM/

- Industrial modem for connection to a volume corrector from the EK series
- Power supply to the volume corrector
- Available modem modules: PSTN, GSM or GPRS
- Alternative available interfaces: CLO or Ethernet (TCP/IP)

GPRS radio data network. An interface module can also be used as an alternative for connection to a TCP/IP network or a modem with CL1 interface. In addition, the modem provides the external voltage supply for the battery-operated volume corrector.



FE260 function extension unit

The FE260 function extension unit has three basic tasks: the ex-barrier for the data interface and the digital outputs, the intrinsically safe power supply and the data communication for a volume corrector from the EK series. The modular concept of the unit allows the use of a modem or, alternatively, an interface board for data communication. An optical interface may also optionally be used in order to set the parameters or to read out the volume corrector in the station, but outside the hazardous area.

- Associated apparatus for Zone 1 hazardous areas
- Ex-barrier for the data interface
- Ex-barrier for the data outputs
- Intrinsically safe power supply to the volume corrector
- Optical interface (IEC 62056-21)
- Communication module may be integrated (PSTN, GSM or GPRS)
- Alternative interface module: RS232 / RS485, CLO or Ethernet (TCP/IP)

FE230 function extension unit

The FE230 function extension unit enables data communication with a volume corrector from the EK series installed in gas stations where there

- Associated apparatus for Zone 1 hazardous areas
- Ex-barrier for the data interface
- Integrated GSM radio data modem with antenna
- Mains-free operation thanks to battery operation
- External antenna
- Additional battery modules

is no power supply or telephone network. The battery-operated GSM modem is activated within a programmable time window for calling up data. Depending on the configuration of the scope of the readout and the readout cycle, a battery life of 5 years or more is possible.



Software The software packages allow easier and more efficient use of Elster-Instromet products. From the programming of the units to the reading out and the evaluation of the data, the various programs offer a wide range of possibilities.



Read Mobile software

Read Mobile is a software package for Pocket PCs and is used for basic programming and for reading out the volume correctors from the EK series and the data loggers from the DL series at the metering points. The connection between the Pocket PC and the unit being read out is established via a wireless Bluetooth connection using Bluetooth readout adapters. The collected archive data is transferred to a PC via a docking station or a corresponding connection cable and can then be further processed.

- Data recording using Pocket PCs
- Basic programming for commissioning
- Manual or automatic readout
- Compact readout adapters with Bluetooth interface
- Data backup function with SD storage card
- Data transmission to a PC for further processing of the archive readouts

WinPADS software

WinPADS is the parameterization and readout program for battery-operated volume correctors and data loggers. Apart from basic programming, pre-

- Parameterization of volume correctors and data loggers for commissioning
- Operating status display
- Readout and representation of current process values
- Download of parameter profiles and readout of configuration data
- Readout of all archive data via the optical interface or by remote data transfer

prepared configurations may also be loaded onto the units. The connection to the units is established via the unit's optical interface or via a modem or a network, in the event that the unit needs to be addressed remotely. Archive data for billing or current process data for system monitoring may thus be read out. In the version for calibration laboratories, the calibration of the volume corrector's pressure and temperature sensors is also supported.



WinLOOK software

With WinLOOK, the contents of the monthly and interval archives of data loggers from the DL series and of volume correctors from the EK series are displayed in either tabular or graphic form. In conjunction with the parameterization programs WinPADS DL-200 and WinPADS EK-200, WinLOOK provides a good opportunity to read out and display the archive data from metering points in a quick and easy way.

- Simple display of archive data
- Representation of archives for event recording and parameter changes
- Simple filter functions for events
- Visualization in tabular and graphic forms
- Direct data export to the Microsoft applications Word and Excel

Flow computers Elster's flow computers of the gas-net F1 and Model 2000 device series are intended for use in large-scale measuring stations and used outside EX Zone 2 environments. In addition to volume correction, the flow computers offer many other functions and fields of application, such as measuring several streams in one device, the connection of process gas chromatographs for energy calculation, remote station monitoring, and data communications.



Model 2000

The Elster-Instromet real-time flow computer series are designed for hydrocarbon liquid and gas measurement and control applications. The advanced features support flexible configurations for fiscal and custody transfer measurements based on volume, mass and energy calculations using the latest applicable AGA, ISO and API standards available. The flow computers (single or multiple stream) support turbine, rotary, ultrasonic, orifice, density, venturi and coriolis flow meters. Alternative the flow computers can be used as a system component serving station controller, liquid prover, grab sampler and/or valve & PID loop controller functions. The top range flow computers provide remote control capabilities using web-based Ethernet TCP/IP technologies.

- AGA3-NX19, GOST, AGA 8 (full composition), ISO 12213, fixed Z, table Z
- ISO 5167 (2003), AGA 3; STACA/CATS (North Sea)
- Heating value and relative density: ISO 6976
- AGA report No. 9 – US meter; AGA report No. 7 – turbine meter
- Calculations for liquids
- TCP/IP

gas-net F1

The gas-net F1 is an electronic flow computer for natural and industrial gases with an integrated data logger. The device can be combined with various intrinsically safe or explosion-proof pressure transmitters and temperature sensors.

- SGERG-88, AGA-NX-19, AGA-8-DC-92, fixed Z, table Z
- Integrated data logger
- Up to three streams, 2 flow directions
- Modular I/O board system
- TCP/IP

The gas-net F1 is able to correct up to three streams with one or two flow directions per stream.



Station controllers are often used in measuring stations in order to implement, in addition to the flow computer, many different tasks in the fields of automation, monitoring and data communications without much extra configuration effort.



gas-net M1

The gas-net M1 is a station controller for universal monitoring, data logging and forwarding of messages and measurements in measuring and regulating stations.

- Monitoring of measurements, count values and messages
- Process value archives
- Maximum and minimum values for measurements and indexes
- Counter functions
- Gateway functionality
- IEC-60850-5-104 protocol

gas-net C1

The gas-net C1 protocol gateway offers extensive functions regarding DSfG class A (local interface), various data communication protocols (Modbus, RK512, 3964R), DSfG gas quality simulation and counter functions.

- Optional TCP / IP interface
- Up to 3 serial interfaces (RS232, RS485, RS422)
- Gateway functionality
- Protocols: Modbus (TCP, ASCII, RTU), 3964R / RK512, DSfG



GasWORKS software

GasWORKS is a modular program system supporting the user optimally in all tasks in connection with devices of the gas-net product line.

The basic module called GW-BASE manages all data records generated in a gas measuring station, such as parameterization data records, telephone access data, and archive data records. The user can configure the data management's structure to his needs. All other GasWORKS modules can be installed individually and additionally; they fulfil different functions, such as parameterizing gas-net devices (GW-GNET+), reading out data via different interfaces (GW-REMOTE), or evaluating archive data records (GW-DATA+).

Systems and solutions

The name **Elster-Instromet** has been associated with high-quality and innovative gas measuring and regulating devices for natural gas custody transfer and calibration systems. Besides the component business, Elster-Instromet provides a global network for the supply of Total Gas Measurement and Control Solutions. With locations in Belgium, the United Kingdom, Malaysia and India, nearly the whole world can be covered.

Integrated Metering Solutions

With us as an original equipment manufacturer, the customer will benefit from the high degree of integration, as all components are designed, engineered and manufactured by Elster-Instromet to maximize added value once combined in one integrated system. This leads to reduced uncertainty, higher reliability, lower risk and reduced maintenance costs. This means lower financial risk and fairer billing of traded natural gas.

Besides a wide range of standard stations and modules, Elster-Instromet also specializes in providing customized solutions, meeting customer specifications in the design and manufacture, as well as providing project management and after-sales support, such as startup and commissioning.

With its own workshops for the production of the (skid mounted) stations, a multi-discipline project and engineering organization supports the projects from conception until successful realization. A dedicated team of experienced, professional mechanical, electrical and welding engineers, combined with gas flow experience and ultrasonic metering know-how,

provides a strong foundation for integrated solutions with customer focus, based on lessons learned.

Elster-Instromet, as leading provider for metering excellence for years, meets the need of the global gas industry. With a long proven track record and a large installed base, Elster-Instromet is the worldwide leader for state-of-the-art gas measurement.

Applications

The systems cover a variety of custody transfer metering applications and calibration systems over a wide range of pressures, flows and line sizes:

- High-pressure transmission lines
- Border metering stations
- City gate and industrial stations
- Local distribution stations
- Metering for LNG plants
- Powerplants
- Underground stations
- Bi-directional systems for underground storage
- Calibration systems
- Biogas applications



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ISS flow computer and control cabinet

ISS Supervisory Suite

The Elster-Instromet Supervisory Suite provides a total solution for supervisory systems for all your metering applications: stations from a single stream up to 100 streams, control systems for high-pressure calibration facilities and remote metering applications where stations are interrogated via a radio network and data are concentrated into a central pipeline monitoring system. The supervisory system can consist of a single supervisory computer or can be dual redundant. In the latter case, two supervisory computers operate in a hot stand-by configuration. For situations where multiple operator terminals are required, a true redundant client server system is available supporting a virtually unlimited amount of operator terminals.

ISS is more than a SCADA or DCS package. ISS is developed specifically for gas / liquid metering applications where accurate calculations, data processing, reporting and advanced communication capabilities are of the utmost importance. Calculations for use specifically in metering such as ISO6976, SGERG, AGA8, NX19, AGA10 and various other thermodynamic properties are part of the ISS package.

With performance monitoring, your metering system is continuously validated. If metering equipment has drifted and requires maintenance or recalibration, this will be signalled. The performance monitoring features within ISS have been developed in close cooperation with all product development specialists for products such as the Q.Sonic ultrasonic meter, EnCal 3000 gas chromatograph and the range of flow computers.

An expert system can be added to the supervisory system allowing technicians to model their expertise on the expert system using a simple rule builder. This will allow operators to benefit from expert knowledge and to resolve problems more quickly.

- Built-in trending for process analysis
- Advanced alarm and event logging
- E-mail or SMS generation on alarms or events
- Validation/calibration system with database and control charts
- Expert system available providing solutions instead of alarms
- Extensive protocol support: Modbus TCP/IP, Hart, OPC, XML, etc.
- Integrated performance monitoring for Elster-Instromet ultrasonic meters



ISS control room with multi screens

Calibration systems

The global involvement in calibration systems and master meters, and the achievement of primary standards make Elster-Instromet a reputable partner and consultant for metrological institutes, gas companies and manufacturers.

Most of the known calibration facilities worldwide were either built by Elster-Instromet, such as 'pigsar' in Germany, TCC in Canada, or the truck-based mobile system for West East Pipeline Project (WEPP) in China, or use Elster-Instromet's master meter technology, such as EuroLoop, Westerbork and Bergum in the Netherlands or Force Institute in Denmark.

In addition, Elster-Instromet operates more than 50 calibration systems of various sizes and types, as part of its own gas meter research, development and production.

Whatever is needed, standard and customized solutions are available:

- Master meters based on duo rotary or turbine principle
- Sonic nozzle systems for low and high pressure
- Modular diaphragm gas meter calibration and test systems,
- Low-pressure calibration systems for turbine and rotary gas meters
- Low- to medium-pressure closed-loop calibration solutions
- High-pressure calibration systems and stations
- Mobile calibration systems for low and high pressure



Rotary piston prover IRPP



Low-pressure test rig for turbine and rotary gas meters



Mobile calibration system

The right service when you need it

Whether you have a single meter or a complex Integrated Metering System, we offer you a 'chain' of life cycle services around the world, designed to ensure continuous confidence in your measurement results. We have specialists at various locations ready to help you.

Reliable from the start

For new stations, we offer you **installation and commissioning services** to ensure that your equipment and systems are installed, tested and commissioned properly and reach peak performance quickly and easily.

As the measurement results essentially form the "cash register" of the company, we offer periodic verification tests to ensure that the metering equipment performance does not deviate significantly from specified tolerances and accuracy.

If you need support for service-specific questions, we have a ticket based helpdesk system available.

One of the most cost-effective and efficient ways to improve productivity and to maximize process uptime is to establish a long-term service contract which can include a combination of individual services such as a helpdesk, preventive maintenance, verification/validation, remote support, (emergency) on-site support, customer training, etc. within an agreed response time.

Furthermore, a full range of **product training courses** is available to customers world-wide. We offer in-house and on-site, targeted training courses for our products which cover operation, commissioning and maintenance.



Important Service technician - field worker

Installation services

- Installation
- Start-up and commissioning

Support services

- Helpdesk/hotline
- Remote support
- Training

Corrective services

- Emergency call-out
- Workshop and on-site repairs

Preventive services

- Maintenance
- Monitoring

Value added services

- Calibration & validation services
- Upgrades
- Extended warranty
- Long-term service agreements

We truly are your local partner. Together with our joint-venture partners, we have increased our global coverage. Our network of service centres and partners guarantees short routes, quick response times and direct support. Qualified personnel in the region and a professional coordination of service operations ensure customer satisfaction. At www.elster-instromet.com you will find regional and national, as well as global contacts and addresses for sales support and services.



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