



Analytical Technology Needs Top Accessories



Prime Partner
in Hydrogen
and Gas Analytics



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The gas analyzers of the MGC series are unbeaten in their class in terms of speed, sensitivity, and flexibility. In order to develop their full potential, we are not satisfied with less than 100%, when it comes to the peripherals.

From sampling probe to control cabinet, from pure natural gas to pure hydrogen, we integrate the measuring device to create a perfect measuring system that is 100% adapted to your needs.

It does not always have to be a complete system.

If you only need individual components, we can of course also supply these.

It goes without saying that we build according to the current/specified standards and norms including documentation and certificates.

Sampling Probes MPS

Even this first part in the chain of gas analysis is important for a measuring system that is optimally adapted to the needs. We offer from the simple probe MPS-01 to a probe with integrated pressure reduction MPS-02 up to the probe MPS-03 with sample feedback for the reduction of emissions.



Patent application for MPS-03 is pending.

Pressure Reducing Station HDR-100

The classical gas analysis system consists of a sampling probe, a pressure reducing station and a gas supply unit with PGC and bypass. While there are more sustainable ways to build such a system today, this doesn't mean, pressure reducing stations are no longer needed.

We build the pressure reducing station HDR-100 completely according to your requirements. Inlet and outlet pressure ranges are freely selectable. All conceivable options are possible. Starting with additional outputs in the high- and/or low-pressure regime, testing connections, particle filters, coalescence filters, condensate separators, electronic pressure, and temperature transfer as well as Ex-heating up to a stand and weather protection housing for free-standing outdoor installation.

From design to installation, we optimize each pressure reducing station for the lowest possible internal volume to provide a sustainable solution that allows the instrument to operate with minimal bypass.



Gas Supply Unit **GVE**

Our gas supply unit is much more than a simple cylinder rack. It consists, for example, of an **MGC^{flex}** and its gas conditioning unit, a junction box for power supply and signal transmission, an optional PLC that collects field signals and transmits them to the **MGC^{flex}** for evaluation, space for two carrier gas cylinders with automatic change-over device, and two separately housed locations for calibration and test gas, each with cylinder heating and temperature monitoring including a digital display that can be secured as a whole.

Sustainability and flexibility are our top priorities for the GVE. We build our GVE completely modular from aluminum profiles and polymer plates, which can be easily adapted to existing conditions.

Whether wall-mounted or free-standing, stretched or cornered, single or multi-piece, everything is possible.

The finished GVE is lightweight and can be easily (partially) disassembled for transport, if necessary.



Due to the modular design, an extension or a conversion can be carried out at any time.

If a GVE is to be disposed of, it can be completely disassembled and recycled.

Blowers **EO-12**



Blowers are used for the safe discharge of gases from pressure relief lines, breathing lines and safety relief valves into the atmosphere. The standard version of the **meterQ** type A blowers is manufactured with a straight connection pipe pointing downwards and complies with the specifications of G442.

To determine the entire explosion protection zone, which must be shown in the Ex-zone plan as part of the explosion protection document, the regulations of G442 are used. **meterQ** can create these documents. The blow-out unit EO-12 can be supplied with a material certificate DIN EN 10204 3.1.

The type A blowers are designed according to the current state-of-the-art with an axial offset between the blow-out pipe and the expansion pipe for the discharge of rainwater. As standard, the blow-out unit EO-12 is made of stainless steel.

Switch Cabinets CAB

In addition to the gas-carrying parts of a measuring system, the electrics and electronics must not be neglected. We are happy to supply a custom-made control cabinet for power supply, monitoring and control of all components, as well as data processing and communication for a measuring system that we plan and build.

For smaller systems, when our gas analysis system is retrofitted, a control cabinet for wall mounting is often sufficient. We do also build full-size cabinets or carry out upgrades or retrofits to existing control cabinets as required. Here too, the important thing is what the customer wants.

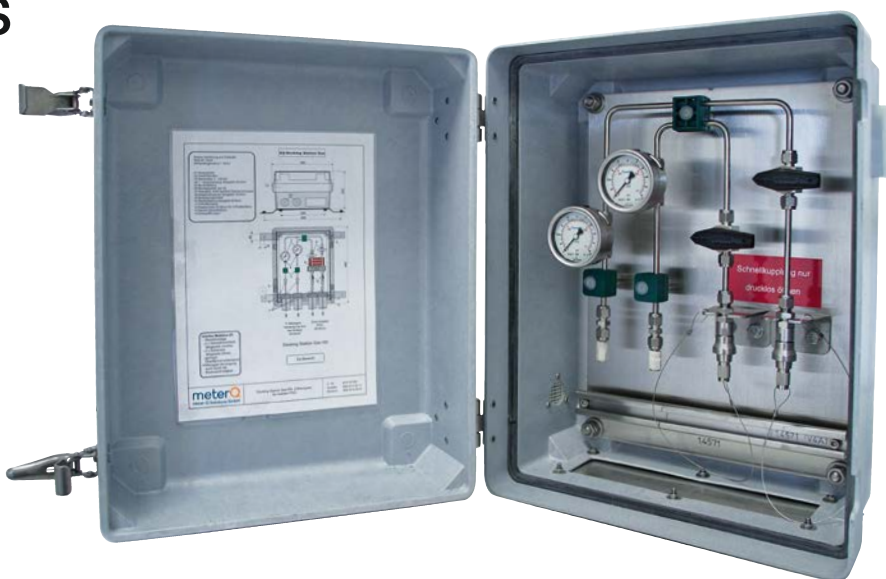


Docking Stations DS

By far the largest percentage of gas stations do not have or require gas quality measurement. Nevertheless, it might be necessary or desirable in such stations to measure the gas quality at least temporarily. This can be done with a mobile gas quality measurement system such as the **MGC^{mobile}**.

To avoid having to temporarily branch off gas, power, and communication lines from the existing installation in such a case, **meterQ** has developed docking stations: The **DS^{gas}** and the **DS^{elektro}** are permanently installed on the outer wall of the station.

They are weatherproof and easy to secure from the outside. If a control measurement is to be carried out, any mobile measuring device can be connected and operated directly from the outside without having to improvise piping or wiring, without problems with Ex-zones and cable bushings, and even without access to the station's interior.



Custom-Made Products

This category includes everything that does not fall under the already mentioned. At **meterQ** we particularly enjoy custom projects because it is always a new challenge to put ourselves up against.



Here are a few examples:

- a specially adapted sampling probe
- a rack for laboratory use of an MGC^{flex}
- a special sample collector with integrated flow
- mobile gas supply unit

You have a problem with your measurement technology for which there is no off-the-shelf solution? Ask us, we will find and build a solution for you!





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