FLOWSIC500 H$_2$-ready Upgrade

ADAPT TO THE FUTURE OF NATURAL GAS METERING

H$_2$-ready firmware upgrade

SICK
Sensor Intelligence.

H$_2$-ready ready feature -
Measurement up to 30% H$_2$

Gas Quality Indicator -
Detection of gas quality changes

Cost optimized upgrade -
No new hardware required

Gas grid control -
H$_2$ load overview and balancing

Upgrading FLOWSIC500 with new firmware and software features brings state-of-the-art technology to your existing installation. Thanks to the innovative "H$_2$-ready" and Gas Quality Indicator features, your device will be ready for the measurement of natural gas with high H$_2$ loads and to detect changes in the gas quality immediately.

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Future ready at one fingertip

Renewable energies are playing an increasingly important role in the decarbonization of our energy supply. Hydrogen is considered a very versatile energy source. However, natural gas will remain an important energy source for maintaining a stable and affordable supply of energy for many years to come. As a perfect combination, more and more natural gas applications are blended with hydrogen to support the energy transition and decrease CO_2 emissions. This result in new gas characteristics and fluctuations in the gas composition. This upgrade service secures high-performance flow measurement for the future gas distribution network with hydrogen feed-in into natural gas.

At a glance

- Firmware upgrade to V2.17.10 on installed FLOWSIC500 to get access to the full future-ready feature set
- Extension of measurement capability to up to 30% H$_2$
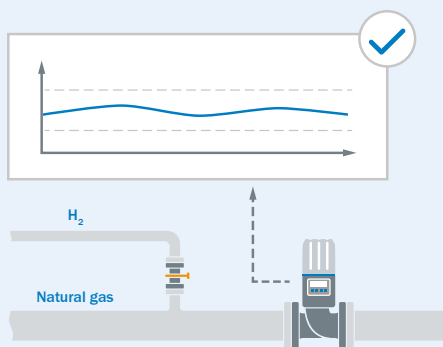- Gas Quality Indicator to monitor gas quality and detect changes

Your benefits

- Measurement performance and uncertainty ensured for up to 30% H$_2$
- Constant monitoring of gas quality
- Instant detection of gas quality changes
- Load balancing of H$_2$ in the gas grid can be supervised
- No need to install separate gas chromatograph
- Backup and validation of existing gas chromatograph can be achieved

Fields of application

- Installed base FLOWSIC500

  (with SN 2101xxxx or higher and FW version <2.17.10)

H$_2$-ready feature

By default, the FLOWSIC500 has the ability to measure a hydrogen content of up to 10% in natural gas. By upgrading to the required firmware version, this range can be extended to up to 30% with an additional license. Accuracy class 1.0 is always maintained and the initial calibration remains valid. The license can be activated ex works when ordering the device or can be obtained from SICK at a later date. When activating the license for gas flow meters in the field, the national regulations must be taken into account.

Gas Quality Indicator (GQI) - how it works

While commissioning the FLOWSIC500, the current gas composition and a permissible deviation can be configured via the Gas Quality Indicator (GQI) in FLOWgate™. The gas quality is constantly monitored.
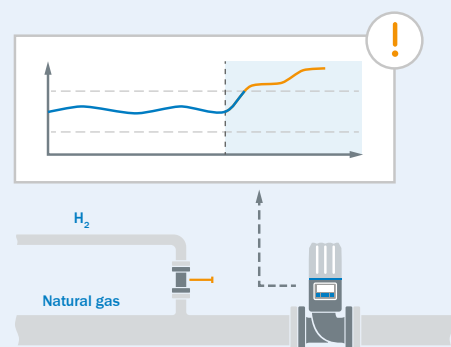
If the gas composition changes due to the incorporation of other gas types, e.g. hydrogen, the operator receives a status notification as soon as the GQI exceeds the configured permissible deviation. Any changes in gas quality can thereby be detected.

More information about our product portfolio is available at: www.sick.com

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