



Compact heat meter

G 54 / G55 / G58



Qbasic

Qopto

QM-Bus

Qwalk-by*

QAMR*

*with respective add-on module

We combine economy with flexibility

Measuring capsule heat meter G54 / G55 / G58

The heat meter family from QUNDIS

Electronic heat meters are used for the strand-by-strand recording of heat consumption in heating systems with central heat supply. These measuring devices calculate the consumption of heating energy using the volume flow of the heating-circuit water and the difference in temperature between feed and return flow. QUNDIS heat meters are available as screw-type or measuring capsule meters in different design sizes, so that almost all standard systems can be equipped.

The series G54 / G55 / G58 has been designed as 2" measuring capsule meter to the pipe system, and is thus screwed to the pipe system via an EAT/EAS (separate housing). On account of the compact design (additional detachable calculator unit), the straightforward operation and wide area of application, these devices are suitable both for underfloor heating and horizontal piped radiator systems as well as solar systems (G58).

Convincing advantages

The compact heat meter family in the series G54 / G55 / G58 meets all the requirements of modern metering and also provides numerous functions that make the device suitable for universal use.

- ~ In addition to their very high level of metering accuracy, the devices are also characterized of their wide range of communication possibilities. In addition, it is possible to store and display cumulated values on a freely choosable due date.
- ~ The meter-reading process is made easier by the optical or electronic readout options available with **Q opto** or **Q M-Bus** and the radio-controlled systems **Q AMR** and **Q walk-by**, and optimised with regard to error detection and data transmission security.
- ~ Thanks to their compact size, the meters can be installed even in an 80-size distribution box without any problems. The calculator unit itself can be turned and mounted separately from the volume flow component, so that it can be adapted to any installation situation and the display can always be read easily.
- ~ Clear pictograms and large numbers ensure that meter reading can be carried out quickly and easily.
- ~ In addition to the standard measured values, series G55 also provides combined heat and cold metering, series G58 can be used in solar systems thanks to the adaptation to water/glycol mixtures.
- ~ An optional remote display module makes readout possible even in poorly accessible spots.
- ~ On-site re-programming of the due date can easily be performed using a programming key (without PC/PDA).

G54 / G55 / G58 – One series, all systems

The 2" measuring capsule meters of the series G54 / G55 / G58 are **Q opto** systems delivered as standard, i. e. they are readout and parameterised via an optical close-range interface. This means that they are also suitable for use in a **Q basic** system, of course. Since they can always be retrofitted with external modules, the heat meters can also be used in other systems such as **Q walk-by**, **Q AMR** or **Q M-Bus** without any problems. Integrated modules also allow these heat meters to be equipped with the required communication technology – M-Bus or impulse output – from the factory.

The following modules are currently available for the G54 / G55 / G58 series:

- ~ Impulse output module with and without error output for connection to the impulse collector
- ~ Radio modules for integration of the heat meters in radio systems such as **Q walk-by** and **Q AMR** (planned from spring 2010)
- ~ **Q M-Bus** module for connection with M-Bus host systems and level converters
- ~ RS 232 module for the direct connection of the heat meter to a PC

Optional add-on modules for different applications



Technical data

Device type	G54 / G55	G58
Nominal flow Qn according to calibration directive	1.5 m³/h 2.5 m³/h	1.5 m³/h 2.5 m³/h
Installation position	horizontal / vertical	horizontal / vertical
Installation length of the EAT	EAT available *	110 or 130 mm
Connection thread on the EAT	EAT available *	G 3/4" or G 1"
Temperature range	25–90 °C	5–90 °C
Maximum temperature (for brief periods)	110 °C	110 °C
Temperature sensor Cable length	1.5 (opt. 3.0) m	1.5 (opt. 3.0) m
Energy supply	Lithium battery	Lithium battery
Service life	> 6 (opt. 10) years	> 6 (opt. 10) years
Protection rating	IP 54	IP 54
Display	7-digit LCD	7-digit LCD
Energy display	kWh (opt. MWh) MJ (opt. GJ)	kWh (opt. MWh) MJ (opt. GJ)

* The heat meters G 54 / G 55 are supplied as replacement meters and installed at the installation points already available on site (EAT/EAS).

Display test (all segments on)



This symbol indicates that hydraulic sensor volume impulses are received by the electronics, i. e. as long as sensor volume impulses are sent, the symbol rotates in 45° steps.

This bar indicates the current user-selected display level. Level 0 (no symbol) shows the consumption data, the levels 1 to 4 show service, configuration and further consumption data.

This arrow shows that no energy is currently being recorded in the heat meter, i.e. it is an optical code for the unit resting phase (no difference in temperature and/or no flow).

QUNDIS – Always the right choice

As a company with a clear strategic focus on customer orientation, we rely on maximum openness, reliability and user friendliness in all areas.

- ~ Open system architecture with standardised interfaces enables different additional services in combination or as an extension
- ~ Own certified measuring and testing equipment (absorber hall, State Testing Centre for heat and water meters, fully electronic quality test)
- ~ Both fully automated and flexible semi-automated production for top product quality

The QUNDIS product family

Universal functionality covering all of our systems and products spells an enormous advantage for users. Should application conditions change or the customer have new requirements, the system can easily be changed without having to leave the QUNDIS family. A change or an upgrade from one system to another is often very straightforward, making the changeover to current technologies such as radio and smart metering much easier.

As a company conscious of its responsibilities, and a member of all the relevant bodies and workgroups on the subjects of sub-metering, smart metering and environmental protection, our developments of future-proof technologies are always an indication of the manifold ways of saving energy and protecting resources.

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