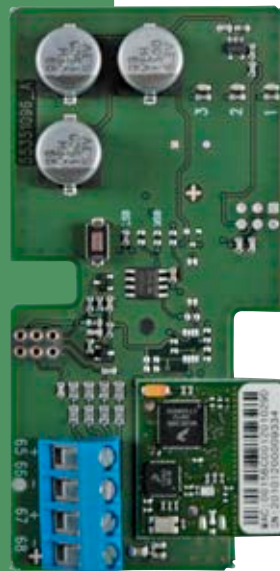


Data sheet

ZigBee® module

for MULTICAL® 601/602 and
MULTICAL® 61

- Open international protocol for interoperability
- The meter can form part of a multi-supply reading system
- Smart House features, e.g. data transmission to kitchen display
- Integral antenna
- Two pulse inputs



Application

Using an open international protocol it becomes possible to include the meter in a remote reading system, in which several units can communicate irrespective of supply and meter supplier.

For example the meter can be part of a system which reads all the household's consumption meters, heat, water, electricity and gas via a gateway.

Furthermore, it is possible to send data to a kitchen display or integrate the meter in systems for the intelligent home.

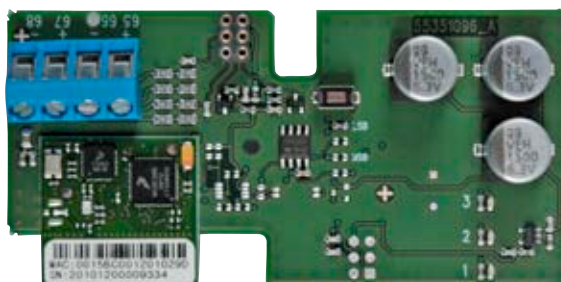
In short it becomes easy to use meter data for remote reading, heat/comfort control and energy advice.

The module is mounted in the meter's module area, either from the factory or by retrofitting. As the antenna is integrated on the module too, the result is a compact and space-saving solution with all parts collected under the seal.

Technical information

Pulse inputs

- Terminal 65 Pulse input A/In-A (+)
- Terminal 66 Pulse input A/In-A (-)
- Terminal 67 Pulse input B/In-B(+)
- Terminal 68 Pulse input B/In-B(-)



ZigBee specifications

Frequency	2.4 GHz
Sensitivity Rx	-93 dBm
Output power, nominal	1 dBm
Chip set	Freescale
ZigBee® stack	Smart Energy 1.1 certified

Electrical specifications

Supply	Supplied by the meter
Stand-by consumption	1.5 uA
Pulse inputs	The module has two pulse inputs which can be used for totalization of pulses from water and gas meters. Pulse solutions and units of inputs are automatically configured on the basis of the setup of MULTICAL®.

Technical information

Mechanical specifications

Dimension (wxhxl)	90x70x20 mm
Mounting	In the meter's module area
Density	IP54 mounted in the meter
Storage temperature:	-20°C +85°C
Operating temperature	-10°C +70°C
Relative humidity	< 95 %, non-condensing

Marking/approvals

PTB and TS approved for mounting in MULTICAL® 601, MULTICAL® 602 and MULTICAL® 61.
CE-marking is fulfilled when the ZigBee®-module is mounted in MULTICAL®.

Software

New software for update or extension of the module can be downloaded to the module via the ZigBee® network.

Ordering

Module mounted in the meter	Type number:	670060000000.E
Separate module for MULTICAL® 601 and MULTICAL® 61	Top number:	670xxxxx
Separate module for MULTICAL® 602	Top number:	602xxxxx

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