

CMi6140

Integrated NB-IoT meter module for Kamstrup MULTICAL 403/603/803

CMi6140 is an integrated meter connectivity module mounted inside a Kamstrup MULTICAL 403/603/803 that deliver meter data to a receiving system via a NB-IoT network. The product is easily configured through Elvaco OTC mobile app or via DM-system, has several different message formats and is ideal for applications where long range is required.



Technical specification

Mechanics

Dimensions (w x h x d) 90 x 35 x 12 mm

Weight 20 g

Mounting In module slot of Kamstrup Multical® 403/603/803

External antenna connector MCX (female)

SIM card Slide, size nano

Electrical connections

Supply voltage HC99303 230 VAC high power supply
HC99305 D-cell battery IoT
HC99306 C-cell battery IoT
24 VAC/VDC High Power SMPS

Electrical characteristics

Nominal voltage 3.5 VDC

Power consumption (max) 300 mA

Power consumption (sleep mode) 8 µA

Battery lifetime > 10 years (EC0)
Hourly readings, transmission 1 / day

Environmental specifications

Operating temperature +5 °C to +55 °C

Operating humidity 0 to 93 % RH, no condensation

Operating altitude 0-2000 m

Mobile network

Transmit power 23.0 dBm

Receiver sensitivity -135 dBm

Band 20, 8, 3

3GPP Release 14 (NB2)

User interface

Meter push button Start-up, reboot, send value

Configuration NFC via Elvaco OTC app, Elvaco Evo DM-system or third party DM-system
Preconfig on delivery
Display operation

GUI

Meter data Storage >10 000 readings

Readout interval 5 min

Report interval 15 min

Meter data format M-Bus, JSON, SenML/CBOR

Protocol MQTT-SN

Device management

Function 2-way, FOTA

Protocol LWM2M

Approvals

EMC EN 301489-1, EN 301489-52