



SPECIFICATIONS: MULTICONNECT – S0, wM-Bus, M-Bus –



General

The Comgy MultiConnect captures meter protocols and incoming digital signals and forwards these via a mobile network to our Meter Gateway Management (MGM) web application or to a customer-designated server.

Forwarded data are decrypted only once they reach the server and remain encrypted both during transmission and on the device. Devices can be configured entirely server-side through our MGM application. This means they can be adjusted anytime – without the need for a site visit.

The integrated data logger also backs up both device data and signals to ensure nothing is lost if the mobile network is disrupted.

Two optional relays may also be integrated to allow for remote control of devices such as heat pumps, solar panels, or door openers.

Due to its compact size, the MultiConnect is ideally suited for electricity- and heat-transfer points. An external connection point allows for antennas to easily extend from steel enclosures.

Our MultiConnect consumes a maximum of 12 kWh of electricity per year at full functionality and supports Smart Meter Language (SML) in addition to wireless M-Bus and OMS.

Areas of application

- Data gateway for wM-Bus, M-Bus, and S0
- M-Bus bridge to wireless M-Bus/OMS
- S0 bridge to wireless M-Bus/OMS
- Remote on-and-off control of device-sites such as heat pumps, CHP, solar panels, locks/openers.



Technical specifications

Dimensions, weight	17.5 x 90 x 56 mm, 75 g
Installation type	DIN rail, standard unit
Power supply	5 V via external DIN-rail power supply unit
Operating temperature range	-20 to +50 °C
Relay (optional)	30 V, 5 A (max. load)
Protection class	IP 20

Network specifications

M-Bus (optional)	M-Bus port
OMS/wireless M-Bus (optional)	Frequency: 868 MHz RF sensitivity: -109 dBm, output: +12 dBm
Wi-Fi (b/g/n) (optional)	Frequency: 2.4 MHz RF sensitivity: -98 dBm, output: +18 dBm
GSM (optional)	Frequency: GSM 900/1800 MHz RF sensitivity: -109 dBm, output: +0...+33 dBm

Standards and norms

Radio infrastructure	EN 300 328 V1.8.1 EN 300 220-1 V2.4.1 EN 300 220-2 V2.4.1 EN 301 511 V9.0.2
Security	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 EN 62368-1
Electromagnetic compatibility (EMC)	EN 301 489-01 (V1.9.2) EN 301 489-03 (V1.6.1) EN 301 489-07 (V1.3.1) EN 301 489-17 (V2.2.1) EN 55032 (2016-02) EN 55035 (2016-04)
Health	EN 62311: 2008

Models

Item number	Label	Equipment
16930000	MC-Core	MultiConnect DIN-rail enclosure, 1 standard unit, GSM external antenna, bluetooth, 4x charges/S0 ports (EN 62053-13 class B)
16931000	MC-wM-Bus	MultiConnect — wM-Bus DIN-rail enclosure, 1 standard unit, GSM external antenna, bluetooth, wM-Bus with internal antenna, 4x charges/S0 ports (EN 62053-13 class B)
16931100	MC-wM-Bus Wi-Fi	MultiConnect — wM-Bus DIN-rail enclosure, 1 standard unit, GSM external antenna, bluetooth, wireless LAN, wM-Bus with internal antenna, 4x charges/S0 ports (EN 62053-13 class B)
16930011	MC-M-Bus	MultiConnect — M-Bus DIN-rail enclosure, 1 standard unit, GSM external antenna, bluetooth, 4x pulses/S0 ports (EN 62053-13 class B), 20x M-Bus ports, 2 relays
16931121	MC-wM-Bus M-Bus Wi-Fi	MultiConnect — wM/M-Bus DIN-rail enclosure, 1 standard unit, GSM external antenna, bluetooth, wireless LAN, wM-Bus with internal antenna, 4x pulses/S0 ports (EN 62053-13 class B), 20x M-Bus ports, 2 relays