Technical Datasheet

IR to Wireless MBus Converter

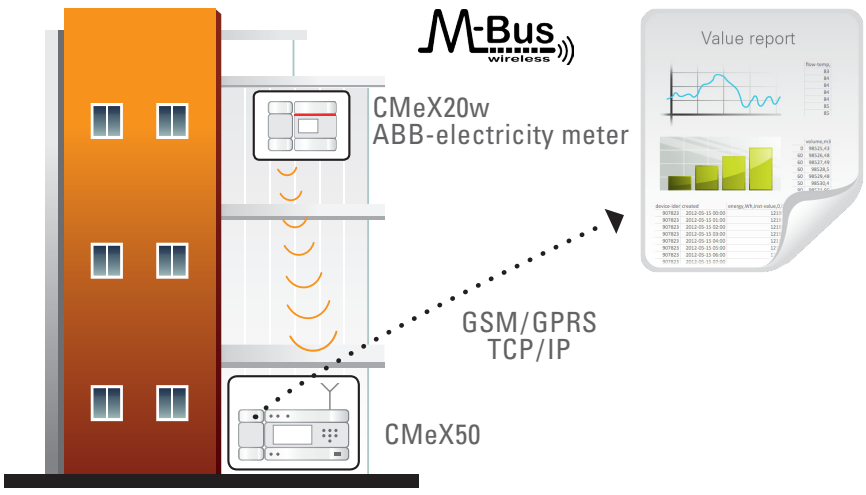
Part Code	Name	Input	Output
EL020WM	IR to Wireless MBus Converter	IR	Wireless MBus

CMeX20w is an external meter connectivity module used to collect data from an ABB B21/B23/B24 electricity meter and deliver it to a receiving system by Wireless MBus.

The product communicates with the ABB meter by IR and will initiate collection of data immediately after start-up. It has a modular design, which makes it easy to extend an existing installation if needs are changing.

Features:

- IR to Wireless MBus OMS 868MHz Converter
- Mains powered 220-240VAC
- DIN Rail Mounted
- For us with ABB Electric Meters
- Available with external antenna. Sold separately.



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IR to Wireless MBus Converter

SYCOUS®

Technical Specification	
Mechanics	
Casing Material	ABS UL94-V0, white
Protection Class	IP20
Dimensions (w x h x d)	35 x 95 x 65 mm (2 DIN modules)
Weight	100 g
Mounting	Mounted on DIN rail (DIN 50022) 35 mm
Antenna	Built-in, or optionally external via SMA-f
Electrical connection	
Supply voltage	Screw terminal. Cable 0.25-1.5 mm^2
Electrical characteristics	
Nominal voltage	220-240 VAC (+/- 10%)
Frequency	50 Hz
Power consumption (max)	<2.5 W
Power consumption (nom)	<1 W
Installation category	CAT 3
Environmental specifications	
Operating temperature	-20 °C to +55 °C
Operating humidity max	80 % RH at temperatures up to 31 °C, decreasing linearly to 50 % RH at 40 °C
Operating altitude	0-2000 m
Pollution degree	Degree 2
Usage environment	Indoors, can be extended with IP67 enclosure for outdoor use
Storage temperature	-40 °C to +85 °C
User interface	
Green LED	Power
Red LED	Error
Orange LED	Encrypted mode
Push button	Configuration/activation
MBus	
Interfaces	IR, MBus slave
Integration	
Meter implementation	ABB meters with IR interface
Maximum number of connected meters	1

Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

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MBus slave interface	
MBus standard	EN 13757-4. Communication by T1.
Frequency	868,95 MHz
Addressing modes	Electricity meter's secondary address
MBus information	All fields in the first telegram of the electricity meter
Transmit power	25 mW
Transmit interval	16 s
Encryption	Unencrypted (default) or encrypted
Approvals	
EMC	EN 61000-6-2, EN 61000-6-3
Safety	EN 60950-1, CAT 3

Data Collection

Wired Networks

Wireless Networks

IoT Technologies

MBus & Pulse for any network

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