

CMeX50

Wireless M-Bus Receiver with display

CMeX50 is a Wireless M-Bus Receiver which enables a Gateway from Elvaco's CMe Series to communicate with Wireless M-Bus meters. CMeX50 handles up to 800 Wireless M-Bus meters and guarantees safe data transmissions through individual encryption keys. The product is equipped with an IR interface which makes it easy to connect to other CMe/CMeX products without having to use any cables.



Technical specification

Mechanics

Casing material	Polyamide
Protection class	IP20
Dimensions (w x h x d)	105 x 90 x 65 mm
Mounting	DIN rail (DIN 50022) 35 mm
Weight	220 g

Electrical connections

Supply voltage	Screw terminal. Cable 0.75-2.5 mm ²
M-Bus master port	Screw terminal. Cable 0.5-2.5 mm ²
M-Bus slave port	Pin terminal solid wire 0.6-0.8 Ø mm
Antenna	SMA-f
RS232	RJ45 8/8
USB slave port	Mini USB Type mini B

Electrical characteristics

Nominal voltage	100-240 VAC (±10%)
Frequency	50/60Hz
Power consumption (nom)	<6
Installation category	CAT 2

Environmental specifications

Operating temperature	-25 °C to +55 °C (reduced response time on LCD at low temperatures)
Operating humidity	5% to 90%, non-condensing
Operating altitude	0-2000 m
Pollution degree	Degree 2

User interface

LCD display	Graphic monochrome
Display resolution	128 x 64 pixels
Keyboard	7 lighted buttons

M-Bus

Interfaces	IR, integrated M-Bus Master, Wireless M-Bus Receiver, M-Bus slave
M-Bus standard	EN 13757 and EN 13757-4
Decryption	Yes

Integrated M-Bus Master

M-Bus baud rate, master port	300 and 2400 bit/s
Maximum number of wired M-Bus devices	32
Nominal voltage	28 VDC
M-Bus search modes	Primary, secondary
Maximum cable length	1000 m (100 nF/km, maximum 90 Ω)

Wireless M-Bus Receiver

Wireless M-Bus modes	S1, T1, C1
Maximum number of Wireless M-Bus devices	800
Radio frequency band	434 or 868 MHz
Encryption	AES-128
RF sensitivity	-105 dBm
OMS compliant	Yes

M-Bus slave interface

M-Bus baud rate, slave port	300 and 2400 bit/s
Nominal voltage	21-42 VDC
Power consumption	1T/1.5 mA
M-Bus search modes	Primary, secondary, enhanced secondary
M-Bus default address	251