

CMa30 Quick Manual

USB M-Bus Master



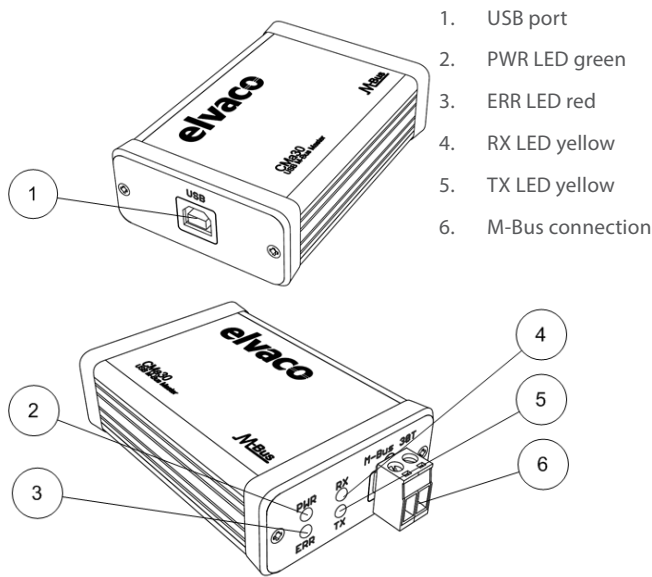
CMa30

USB M-Bus master

INTRODUCTION

CMa30 is a USB M-Bus master specifically designed for mobile use. In combination with a laptop, it is suitable for installation and troubleshooting of M-Bus slaves. CMa30 is also suitable for fast and easy reading of small M-Bus systems. Drivers for CMa30 and more information about M-Bus can be downloaded from the Elvaco Knowledge Base, <https://support.elvaco.com/hc/en-us>.

OVERVIEW



1. USB port
2. PWR LED green
3. ERR LED red
4. RX LED yellow
5. TX LED yellow
6. M-Bus connection

INSTALLATION

Drivers for CMa30 have to be installed on the computer before using CMa30. Drivers are available for download at <https://support.elvaco.com/hc/en-us/articles/17439477128221-Installing-drivers>.

Start the installation guide and follow the instructions. Connect the CMa30 to the USB port in the computer and check which COM port number the device received in the device manager. See the Troubleshooting section for more information.

M-BUS 2-WIRE BUS

M-Bus is a multi-drop 2-wire bus with no polarity. Connect the wiring to terminal (6). CMa30 handles up to 30 slaves. Overloading the bus will turn on the ERR LED and turn off the M-Bus bus. All connected M-Bus slave devices must have unique primary or secondary addresses depending on addressing mode.

LED INDICATIONS

Green PWR LED
PWR LED indicates mains supply.

Mode	Description	Visual
Permanently on	Mains power connected	
Permanently off	No mains power connected	

Red ERR LED
ERR LED indicates M-Bus 2-wire bus status.

Mode	Description	Visual
Permanently on	Short circuit of the M-Bus 2-wire bus	
Permanently off	Normal mode, Idle	
Short flash every second	No M-Bus slaves connected	
Flashing for 1 second	M-Bus slave collision	

Yellow RX LED
RX LED indicates communication from M-Bus slave to computer.

Mode	Description	Visual
On/Flashing	M-Bus slave is transmitting data	
Off	M-Bus slave is not transmitting data	

Yellow TX LED
TX LED indicates communication from computer to M-Bus slaves.

Mode	Description	Visual
On/Flashing	Computer is transmitting data	
Off	Computer is not transmitting data	

