

MM20-USB

Interface converter

Highlights

- Transparent conversion of M-Bus interface to USB interface
- Readout up to 20 M-Bus slave devices
- Short circuit protection of M-Bus line
- Galvanic isolation up to 1kV DC
- LED indications On, Rx, Tx
- Automatic set of data rate and format
- Plug & Play installation
- Power supplied from USB port
- Compatible with Windows 98 / ME / 2000 / XP and Linux operating systems
- Driver for virtual serial port



Description

MM20-USB is interface converter intended for transparent readout and power supply of M-Bus slave devices. Converter is powered from USB port and galvanically isolated from the M-Bus line. LED indications show power supply presence, data transmit and receive. Data rate and format adjustment is performed according to M-Bus slave device. Converter is designed to withstand short circuit on M-Bus line.

Application

MM20-USB is suitable for installation and service of M-Bus slave devices. In combination with a laptop, it is suitable for the local setting and reading of heat, water and electricity meters, and other devices that communicate according to M-Bus protocol. Converter acts on M-bus line as standard M-Bus master device which can sustain up to 20 M-Bus slave devices.

Technical specification

M-Bus interface	M-Bus master, up to 20 M-Bus slave devices, transparent protocol, data rate 300-9600bps; Connection: pluggable screw terminal 5mm, 2.5mm ²
M-Bus port	quiescent current: 0-30mA, short circuit: 50-70mA with restart Function, line voltage: 30.5V ± 5%, internal resistance <100 Ohm
M-Bus line length	> 12km@300bps, > 4km@2400bps, > 1km@9600bps cable JYSTY nx2x0.8
Overvoltage protection	tranzorb on M-Bus line
USB interface	USB 1.1 and USB 2.0 standard Connection: USB (type B)
Data rate and format	Automatic, according to M-Bus slave device
LED indications	On, Rx, Tx
Galvanic isolation	1kV DC
Power supply	From USB port – no additional mains adapter is required
Operating temperature	-20 do 75°C
Dimensions	90 x 43 x 20 mm

DECODE d.o.o.

Bulevar Nikole Tesle 30A

11080 Belgrade, Serbia

Tel: +381 11 311 0027

E-mail: office@decode.rs

www.decode.rs

Legal notice

Reproduction, transfer, distribution or storage of part or all of the contents in this document in any form without the prior written permission is prohibited. All rights reserved. All trademarks mentioned herein belong to their respective owners.

Copyright © 2018 Decode

Disclaimer

Decode has used reasonable care in preparing the information included in this document, but does not warrant that such information is error free.

Decode, its associates, representatives, employees, and others acting on its behalf disclaim any and all liability for errors, inaccuracies, or incompleteness contained in any datasheet or in any other disclosure relating to any product.

In the interest of continuous product development, the Decode reserves the right to make improvements to this manual and the products described in it at any time and without prior notification or obligation.

The use of the product is at sole discretion of the user. Decode cannot be held responsible for any damages arising due to use of this product and makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product.

Note: The specifications in this document are valid as of the listed versions of software and/or hardware. Revised versions of this document, as well as software and driver updates are available in the download area of the Decode web site.