HMS-EN2MB-R Linking Device INSTALLATION SHEET



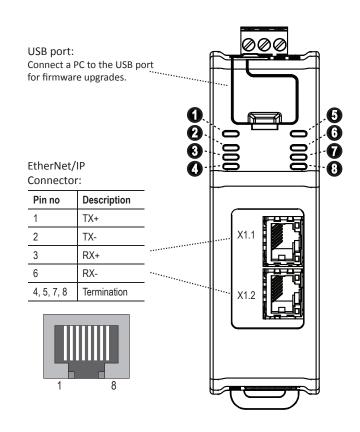
HMS Industrial Networks AB Web: www.anybus.com Tel: +46 35 172900

E-mail: info@hms.se

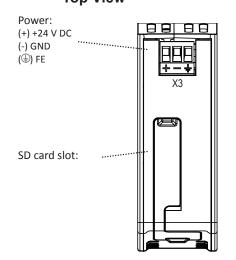


SP2093, rev 1.00, Oct 2016. HMS-EN2MB-R. www.anybus.com

Device Front

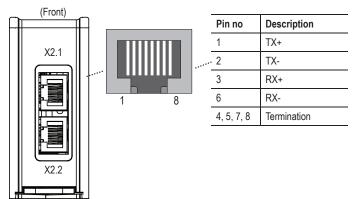


Top View



Bottom View

Modbus-TCP Connector:



LED Indicators

No	Name	Indication	Meaning
0	Module Status EtherNet/IP	Off Alternating red/green Flashing green Green Flashing red Red	Power off Boot sequence Idle Running Major or minor recoverable error Major or minor unrecoverable error (Exception state or FATAL)
2	Network Status EtherNet/IP	Off Green Flashing green Red Flashing red	No power or no IP address Online, one or more connections estab- lished (CIP Class 1 or 3) Online, no connections established Duplicate IP address, FATAL error One or more connections timed out (CIP Class 1 or 3)
3 4	EtherNet/IP Ethernet Link 1 and 2	Off Flashing green Flashing yellow	No link Receiving/transmitting Ethernet packets at 100 Mbit Receiving/transmitting Ethernet packets at 10 Mbit
6	SD Card	Green Red	Accessing SD card Failure
6	Modbus-TCP Status	Off Green Flashing green Flashing red Red	Power off Communicating with Modbus-TCP network Idle Transaction error or timeout Fatal error
7 8	Modbus-TCP Ethernet Link 1 and 2	Off Flashing green Flashing yellow	No link Receiving/transmitting Ethernet packets at 100 Mbit Receiving/transmitting Ethernet packets at 10 Mbit

Installation and Startup Summary

- Attach the linking device to the DIN-rail.
- Connect the device to the EtherNet/IP network.
- Connect the device to the Modbus-TCP network.
- Turn on the device (+24 V DC).
- Assign an IP address to the device using BOOTP-DHCP server.
- Start the Studio 5000 software.
- Search in the catalogue for the HMS-EN2MB-R.
- Add the device to the Ethernet network in the I/O configuration.
- In the general tab, assign a name and the previously chosen IP address to the device.
- Configure the device using the configuration manager and download the configuration to the device.
- Set up the EtherNet/IP communication according to the device configuration.

Technical Details

- Power supply:24 V DC (-15% to +20%).
- Power consumption:

Maximum power consumption is 300 mA @ 24 V DC. Typical power consumption: 150 mA @ 24 V DC.

- Surrounding temperature70 degrees C @ 225 mA @ 24 V DC.
- Functional Earth (FE):

Internal connection to FE via DIN-rail or, if the DIN-rail can not be used, via the power connector.

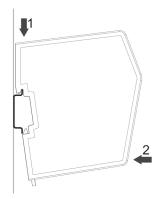
Note: Make sure the DIN-rail is properly connected to FE.

For maintenance and support, contact the HMS support department. Contact information is available at the support pages on www.anybus.com.

Further information and documents about this product can be found at the product pages on www.anybus.com.

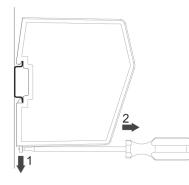
HMS-EN2MB-R Linking Device **INSTALLATION SHEET**

DIN-rail Mounting



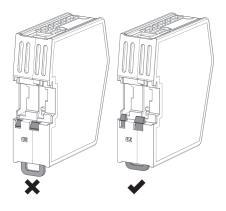
Ensure that the DIN-rail fastening mechanism on the back of the module is in a fixed and closed position, i. e. that it is pushed all the way up.

To mount the device, first hook it on to the DIN-rail (1), then push it against the DIN-rail to make it snap on (2).



To unmount the device, use a screwdriver to push the DIN-rail fastening mechanism on the back of the device down until it locks in a fixed and open position (1). Then unhook the device from the DIN-rail (2).

Note: Do not leave the device with the DIN-rail fastening mechanism in a fixed and open position. This may cause unneccessary wear on the fastening mechanism, so that it cannot be used efficiently. Be sure to push the DIN-rail fastening mechanism back into the fixed and closed position after unmounting the device, with reference to the picture below.



Additional Installation and Operating Instructions

Supply voltage: The linking device requires a regulated 24 (20.4-28.8V) VDC power source.

Field wiring terminal markings (wire type Cu only, 14-30AWG) "Use 90°C copper (Cu) wire only" Terminal tightening torque (5-7 lb-in).

Use in Overvoltage Category I Pollution Degree 2 Environment.

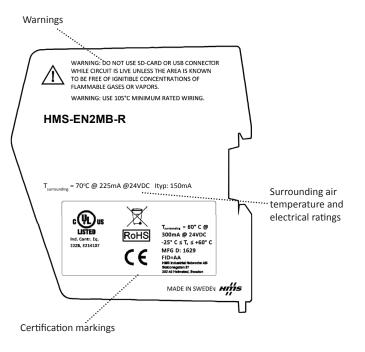
Operating temperature/Surrounding temperature: -25° to +60° degrees C @ 300 mA @ 24 V DC.

NOTE: If the surrounding temperature exceeds +40° C, install the unit with at least 10 mm of air on each side.

Maximum surface temperature: 135 degrees C.

Pressure: 850 - 1050 millibar.

Label Markings



UL Certification



EMC Compliance (CE)



This product is in accordance with the EMC directive 2014/30/EU through conformance with the following standards:

EN 61000-6-4

Emission standard for industrial environment EN 55016-2-3, Class A

EN 61000-6-2

Immunity for industrial environment

EN 61000-4-2

EN 61000-4-3

EN 61000-4-4

EN 61000-4-5

EN 61000-4-6

HMS Industrial Networks AB Stationsgatan 37 302 45 Halmstad Sweden



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