The EtherNet/IP to Modbus-TCP Linking Device allows you to connect any Modbus-TCP device or system to your ControlLogix™ and CompactLogix™ PLC from Rockwell Automation. The stand-alone Linking Device is less expensive than an in-chassis-based solution, and has even better integration to Studio 5000® from Rockwell Automation.

In short:
EtherNet/IP Adapter Class product which is tightly integrated to Rockwell Studio5000 allowing you to connect Modbus-TCP devices to Rockwell PLCs.

Catalog number:
HMS-EN2MB-R

The EtherNet/IP to Modbus-TCP Linking Device will:
- Minimize costs when connecting Modbus-TCP server devices (slaves) to your PLC. More cost-efficient than an in-chassis solution.
- Allow you to easily retrofit existing Modbus-TCP devices.
- Allow support for “Big data” — up to 8 KB of I/O data.
- Speed up configuration — Automated process inside Rockwell Studio5000.

Technical highlights:
- Custom Add-On Profile: simplifies configuration and reduces commissioning time, dynamically generates data structures. No need for any ladder logic or Add On Instructions.
- Connects up to 64 servers (slaves), connections and transactions.
- Does not affect backplane performance (PLC execution time), even when large amount of data is transferred to the PLC.
- EtherNet/IP Adapter Class product supporting Beacon-based DLR.
- Automatically generates named and structured Studio 5000 controller tags based on the configuration — no need for add-on instructions or creating alias tags.
- ODVA, CE and UL certifications (ATEX and Haz.Loc. certifications pending)

HMS provides a full 3 year product guarantee

Integrated into Studio5000
All network and device configuration is done within Studio 5000.
See how it works at www.encompass.hms-networks.com
### TECHNICAL SPECIFICATIONS

**EtherNet/IP to Modbus-TCP Linking Device**

- **Max amount of slaves**: 64
- **Network connectors**: Two RJ45 for Modbus-TCP and two RJ45 for EtherNet/IP
- **Baud rate**: 10/100 MBit/s
- **I/O data**: 4 KB Input and 4 KB Output
- **Supported Modbus-TCP functions**: 1, 2, 3, 4, 5, 6, 15, 16, 23

#### Technical Details

<table>
<thead>
<tr>
<th>Weight</th>
<th>160 g, 0.35 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (L•W•H)</td>
<td>110•35•101 mm, 4.33•1.38•3.98”</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP20, NEMA rating 1</td>
</tr>
<tr>
<td>Enclosure material</td>
<td>PC ABS, UL 94 V0</td>
</tr>
<tr>
<td>Installation position</td>
<td>Vertical</td>
</tr>
</tbody>
</table>

#### Certifications

- **UL**: Yes
- **Hazardous Locations**: Pending
- **ATEX**: Pending
- **CE**: Yes
- **ODVA**: Yes

#### Electrical Characteristics

- **Power**: 24 VDC +/- 10 %
- **Current consumption**: Typical 150 mA @ 24 V

#### Hardware Characteristics

- **Reverse voltage protection**: Yes
- **Short circuit protection**: Yes
- **Galvanic isolation on subnetwork**: Yes

#### Environmental Characteristics

- **Operating temp**: -25 to 70 °C, -13 to 158 °F
- **Storage temp**: 40 to 65 °C, -40 to 185 °F
- **Relative Humidity**: 5-95 % non condensing
- **Installation altitude**: Up to 2 000 m

#### Immunity and Emission for Industrial Environment

- **Electrostatic discharge**: +/- 4 kV
- **Electromagnetic RF fields**: 10 V/m 80 MHz - 1 GHz
- **Fast Transients**: +/- 1 kV
- **Surge protection**: +/- 1 kV
- **RF conducted interference**: 10 V/m
- **Emission (at 10 m)**: 40 dB 30 MHz - 230 MHz

#### Insulation, transient voltage (not for personal safety)

- **Power to PE**: 1 500 V
- **Power to X1**: 1 500 V
- **Power to X2**: 1 500 V
- **X2 to PE**: 500 V
- **X2 to X2 Shields**: 500 V
- **X2.1 to X2.2**: 500 V

#### Included components

- **Installation guide**

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**In case of any questions, please contact:**

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