



# Anybus E300-MBTCP E300 Communication Module for Modbus TCP User Guide

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Anybus-E300-MBTCP  
E300 Communication Module for Modbus TCP

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## Important User Information

### Disclaimer

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## Preface

### About This Document

This manual describes the installation of the Anybus-E300-MB TCP.

For information on how to configure the Anybus-E300-MBTCP, refer to the user manuals for the Anybus-E300-MBTCP and the E300 Electronic Overload Relay.

Please visit [www.anybus.com/support](http://www.anybus.com/support) and [www.rockwellautomation.com/support](http://www.rockwellautomation.com/support).

## Document Conventions

Numbered lists indicate tasks that should be carried out in sequence:

1. First, do this
2. Then do this

Bulleted lists are used for:

- Tasks that can be carried out in any order
- Itemized information
  - An action → and a result

User interaction elements (buttons etc.) are indicated with bold text.

Program code and script examples

Cross-reference within this document: Document Conventions, p. 1

External link (URL): [www.hms-networks.com](http://www.hms-networks.com)



### **WARNING**

Instruction must be followed to avoid a risk of death or serious injury.



### **Caution**

Instruction must be followed to avoid a risk of personal injury.



• Instruction that must be followed to avoid a risk of reduced functionality and/or damage to the equipment, or to avoid a network security risk.



Additional information which may facilitate installation and/or operation.

## Trademarks

Anybus® is a registered trademark of HMS Networks AB.  
All other trademarks are the property of their respective holders.

## Safety

### Intended Use

The intended use of this equipment is as a communication interface. The communication module allows an E300 Relay to be integrated into an automation system.

The communication module has two RJ45 connectors that function as a switch.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

## General Safety



### WARNING

To prevent electrical shock, disconnect from the power source before installing or servicing. Follow NFPA 70E requirements. Install in a suitable enclosure. Keep free from contaminants.



### WARNING

Installation, adjustments, putting into service, use, assembly, disassembly, and maintenance shall be carried out by suitably trained personnel in accordance with the applicable code of practice.



### WARNING

In case of malfunction or damage, no attempts at repair should be made. The product should be returned to the manufacturer for repair. Do not dismantle the product.

## Preparation

### Support and Resources

For additional documentation and technical support, please visit [www.anybus.com/support](http://www.anybus.com/support) and [www.rockwellautomation.com/support](http://www.rockwellautomation.com/support).

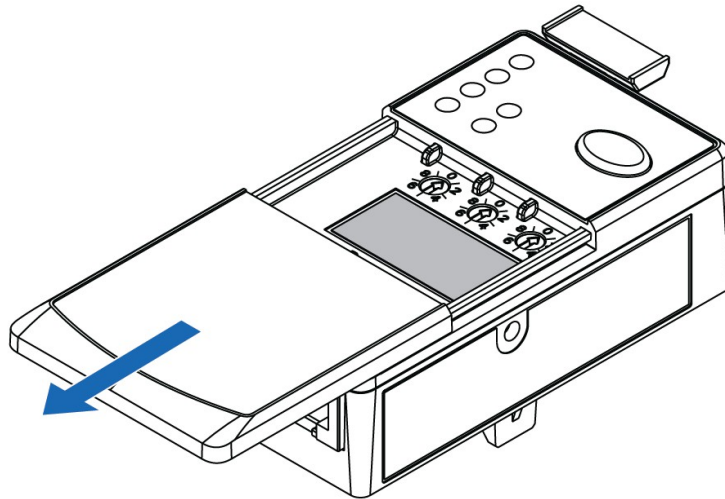
### Recommended Ethernet Cables

1585J-M8TBJM-2	RJ45 Straight Male to RJ45 Straight Male, Teal Robotic TPE, Weld Splatter, Flex Rated, 2 m
1585J-M8TBJM-2	RJ45 Straight Male to RJ45 Straight Male, Teal PVC, 600V Rated, 2 m

Custom lengths are available up to 99 meters.

## E300 Communication Module Network Information

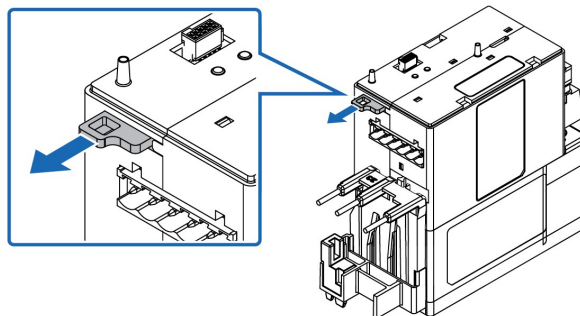
Label with Network Information: MAC Id, Serial Number, and Firmware Revision.



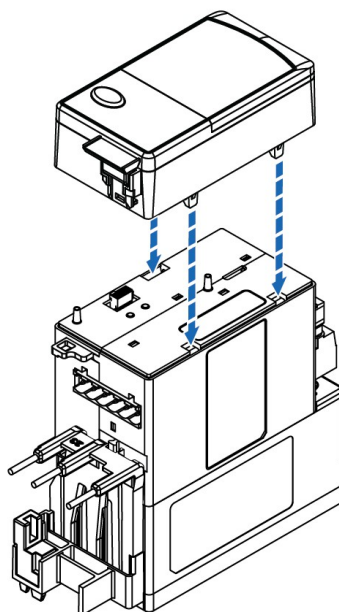
## Installation

### Attach the E300 Communication Module

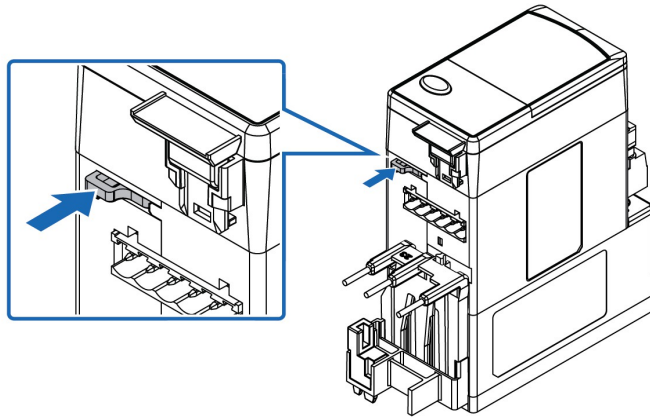
1. Pull out the locking tab located on the upper left side of the E300 Relay Control Module.



2. Attach the E300 Communication Module to the E300 Relay Control Module.



3. To lock the modules, push in the locking tab located on the upper left side of the E300 Relay Control Module.

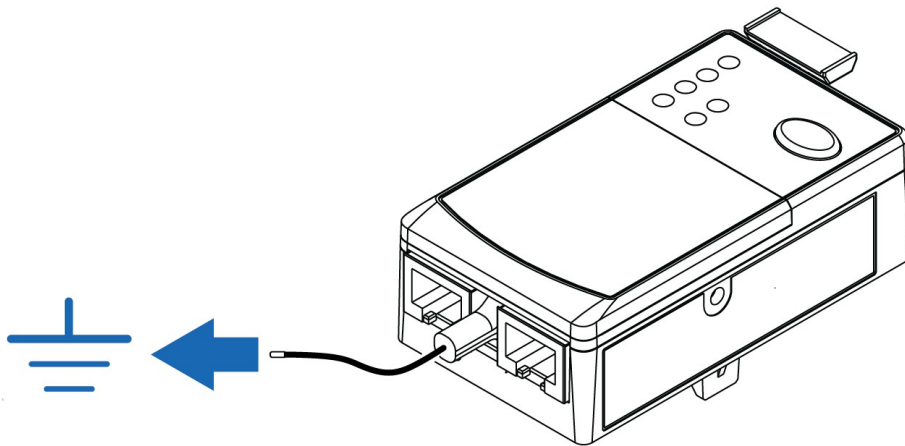


### Connecting to Ground

Motor protection function:

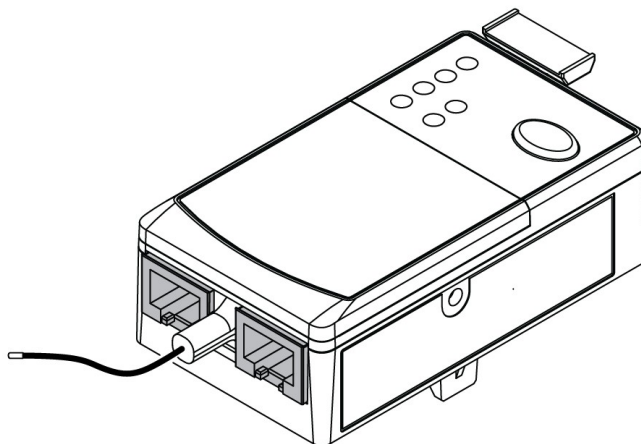
Ground Fault – zero-sequence method (50 N)

- Connect the Green Wire to Functional Earth (Ground).



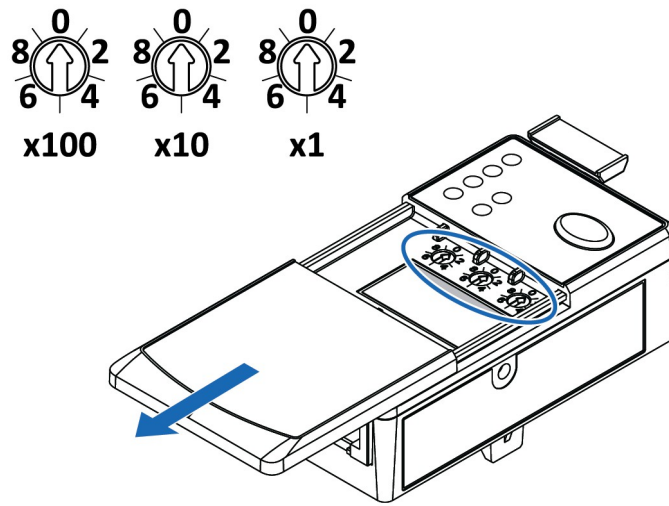
### Connecting to Modbus TCP Network

The E300 Communication Module has two RJ45 ports that act as an Ethernet switch.



The E300 Communication Module listens for incoming Modbus TCP connections on TCP port 502. Up to four simultaneous Modbus TCP connections are supported.

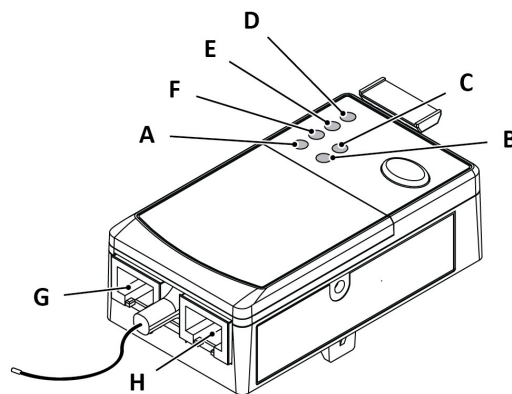
### IP Address Setting Via Rotary Switches



Node Address	Function
001 – 254	Set IP Address to 192.168.1.xxx
255 – 887 889 – 999	Configure the module to “Use configured settings”, values from nonvolatile storage.
888	Reset to factory defaults
000	Configure the module to “Use configured settings”, values from nonvolatile storage. Enter Administration mode

► A power cycle is required for the changes to take effect.

## LED Guide

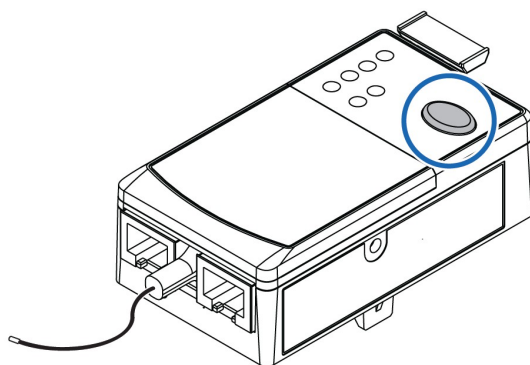


## E300 Communication Module LED Indicators

Position	LED Indicator
A	Link 1 Status and RJ45 Port G status
B	Link 2 Status and RJ45 Port H status
C	Network Status
D	Power

Position	LED Indicator
E	TRIP/WARN
F	Module Status

## Test/Reset



Test: Ensure that the E300 Relay is untripped. To open the trip relay contact: Press the Test/Reset button for 2 seconds.

Reset: Ensure that the E300 Relay is tripped. To close the trip relay contact: Press and immediately release the Test/Reset button.



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## Documents / Resources

	<a href="#">Anybus E300-MBTCP E300 Communication Module for Modbus TCP</a> [pdf] User Guide E300-MBTCP, E300 Communication Module for Modbus TCP
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## References

- [Anybus technical support | Anybus](#)
- [HMS Networks | Industrial IoT and industrial ICT](#)

