

Startup Guide

Important User Information

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Preface

About This Document

This manual describes the installation of the E300-DPV1.

For information on how to configure the E300-DPV1, refer to the user manuals for the E300-DPV1 and the E300 Electronic Overload Relay.

Please visit www.anybus.com/support and www.rockwellautomation.com/support.

Document Conventions

Safety Symbols



DANGER

Instructions that must be followed to avoid an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Instructions that must be followed to avoid a potential hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

Instruction that must be followed to avoid a potential hazardous situation that, if not avoided, could result in minor or moderate injury.



IMPORTANT

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.

Information Symbols



NOTE

Additional information which may facilitate installation and/or operation.



TIP

Helpful advice and suggestions.

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 one PROFIBUS-D-SUB connector.

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 power source before installing or servicing. Follow NFPA 70E requirements. Install in 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 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 and www.rockwellautomation.com/support.

Recommended Cables and Connectors



IMPORTANT

Use only PROFIBUS approved cables and connectors.

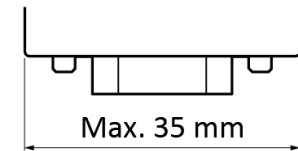


Figure 1. Straight, 45° and 90° connectors

Supported versions of PROFIBUS connectors: Straight, 45° and 90°

Maximum supported PROFIBUS connector width: 35 mm.

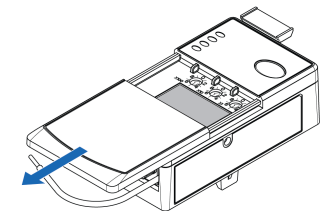
Table 1. Supported PROFIBUS connectors, examples

Manufacturer	Variant	Article
Siemens	0°	GGK1500-OEA02
Siemens	90°	GES7972-0BB12-0XA0
Erni	90°	104050
Erni	90°	174048
Phoenix Contact	0°	SUBCON-PLUS-PROFIB/AX/SC - 2744380
Phoenix Contact	45°	SUBCON-PLUS-PROFIB (2744348)
Phoenix Contact	90°	SUBCON-PLUS-PROFIB/90/IDC (2313672)

Maximum cable length depends on the configured Baud rate. For more information refer to www.profibus.com.

E300 Communication Module Network Information

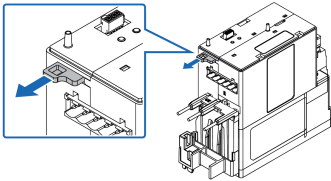
Label with Serial Number and Firmware Revision.



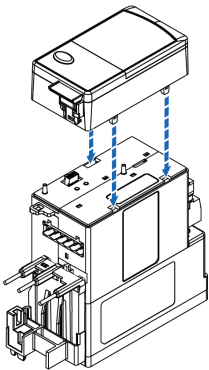
Installation

Attach E300 Communication Module

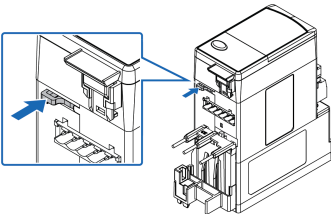
1. Pull out the locking tab located on the upper left side of the E300 Relay Control Module.



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.

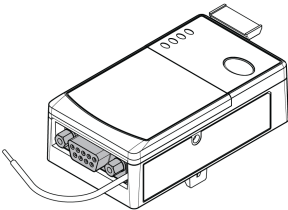


Connect to PROFIBUS Network

The E300 Communication Module has one PROFIBUS D-SUB connector.

IMPORTANT

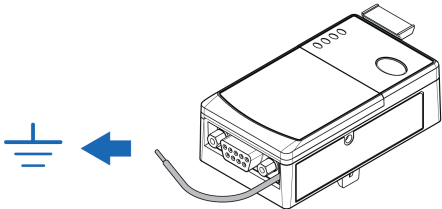
If a node is the last on a bus segment, use a PROFIBUS connector with built-in and activated terminating resistors.



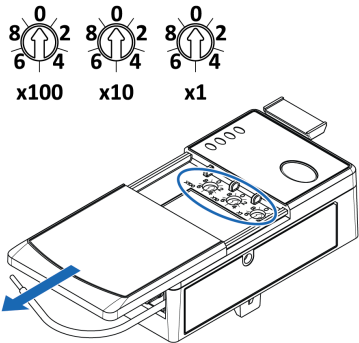
For more information about PROFIBUS design and installation, refer to www.profibus.com.

Connect to Ground

Connect the Green Wire to Functional Earth (Ground).



PROFIBUS Address Setting Via Rotary Switches



Rotary Switch Setting	Function
000 - 125	User configured PROFIBUS address
126	PROFIBUS address configured by PROFIBUS Master (SSA)
600 - 699	NP40-Update-Mode
700 - 799	Host-Update-Mode

NOTE

All other rotary switch settings are treated as invalid and result in a red TRIP/WARN LED.

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

Node address setting example

When the left dial is set to 1, the middle dial is set to 2, and the right dial is set to 3, the resulting PROFIBUS station address is: **123**.

LED Guide

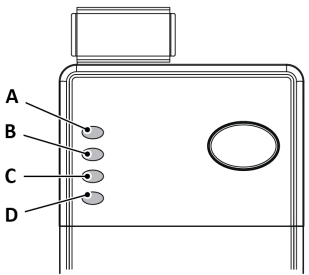


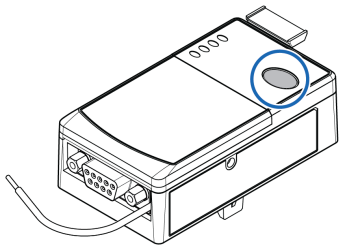
Table 2. E300 Communication Module LED Indicators

Position	Label	LED Indicator
A	POWER	Power
B	TRIP/WARN	TRIP/WARN
C	MODE	Operating Mode/Network Status
D	STATUS	Module Status

For more information see the E300-DPV1 User Manual.

For detailed information about the LED B TRIP/WARN, refer to the E300 Relay Control Module User Manual.

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.