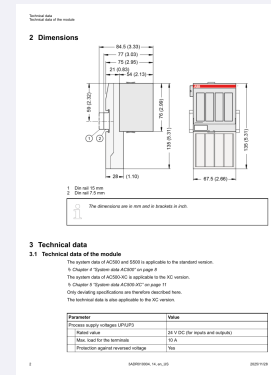


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

ABB CI522-MODTCP

Modbus Digital I/O Interface



PRODUCT	CI522-MODTCP
FAMILY	AC500 / S500 I/O
FUNCTION	Modbus Digital I/O Interface
STATUS	Verify exact configuration

Prepared by Amikon Limited from ABB 3ADR010004 rev.14, 2025-11-28; CI52x system technology and library help. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Digital channel allocation	8 fixed inputs, 8 fixed outputs and 8 configurable digital I/O
Network interface	10/100 Base-TX; two RJ45 sockets and internal switch
Process-image size	12 input bytes and 20 output bytes
Process supply rating	24 V DC at UP and UP3; -15% / +20% system tolerance
Normal UP consumption	0.15 A
UP3 consumption	0.06 A plus maximum 0.5 A per output
Internal heat dissipation	Maximum 6 W

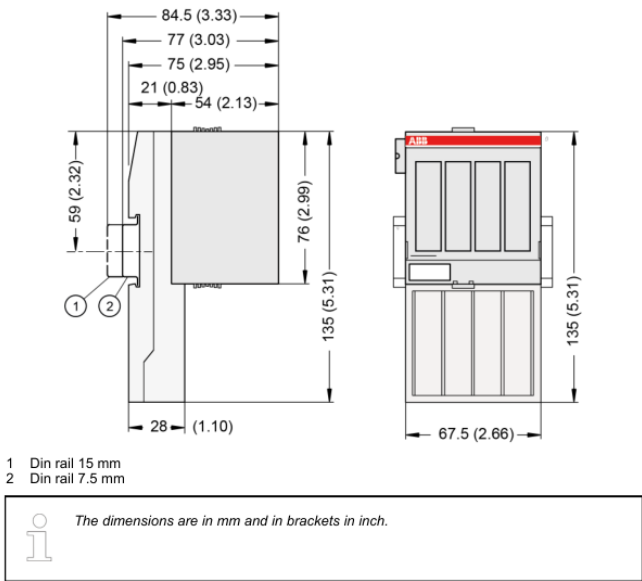
02 MOUNTING AND CONNECTION

- Disconnect all supply and process voltages before replacing the interface or connecting and disconnecting its terminal blocks.
- Install CI522-MODTCP on TU507-ETH or TU508-ETH and maintain free natural convection.
- Wire protected SELV/PELV UP at 1.8/2.8, UP3 at 3.8 and ZP returns at 1.9/2.9/3.9.
- Use terminals 1.0-1.7 for DC0-DC7, 2.0-2.7 for DI8-DI15 and 3.0-3.7 for DO8-DO15.
- Restore the engineered channel directions, Modbus configuration and counter mode; verify output-group loading and installation derating.

03
OFFICIAL INSTALLATION REFERENCE

Technical data
Technical data of the module

2 Dimensions



3 Technical data

3.1 Technical data of the module

The system data of AC500 and S500 is applicable to the standard version.
❧ Chapter 4 "System data AC500" on page 8
The system data of AC500-XC is applicable to the XC version.
❧ Chapter 5 "System data AC500-XC" on page 11
Only deviating specifications are therefore described here.
The technical data is also applicable to the XC version.

Parameter	Value
Process supply voltages UP/UP3	
Rated value	24 V DC (for inputs and outputs)
Max. load for the terminals	10 A
Protection against reversed voltage	Yes

Official manufacturer reference reproduced from ABB 3ADR010004 rev.14, 2025-11-28; CI52x system technology and library help. Use the current source document and all referenced drawings and notes for installation.

04

CABLE ROUTING AND CONNECTION

- Install CI522-MODTCP on TU507-ETH or TU508-ETH and maintain free natural convection.
- Wire protected SELV/PELV UP at 1.8/2.8, UP3 at 3.8 and ZP returns at 1.9/2.9/3.9.
- Use terminals 1.0-1.7 for DC0-DC7, 2.0-2.7 for DI8-DI15 and 3.0-3.7 for DO8-DO15.
- Restore the engineered channel directions, Modbus configuration and counter mode; verify output-group loading and installation derating.
- Test field states, output commands, counter values and failure recovery before returning equipment to service.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Validate field signals, counter readings, output loading and configured failure response.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	ABB 3ADR010004 rev.14, 2025-11-28; CI52x system technology and library help
Product record	CI522-MODTCP
Manufacturer	ABB
Support	INFO@AMIKON.CN