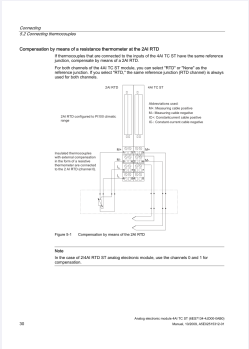
FIELD INSTALLATION QUICK GUIDE

Installation Instructions

6ES7134-4JD00-0AB0

Four-channel thermocouple input module



PRODUCT	6ES7134-4JD00-0AB0
FAMILY	SIMATIC ET 200S 4AI TC ST
FUNCTION	Four-channel thermocouple input module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Siemens documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

Input channels	Four
Input principle	Integrating analog conversion
Conversion resolution	15 bits plus sign
Maximum shielded cable	50 m
Parameter data	7 bytes
Input address space	8 bytes

02 PREPARATION AND CONNECTION

- Choose the compatible 15 mm terminal module and configured thermocouple type.
- Connect each M+ and M- channel with the specified polarity and shielding.
- Provide the configured external reference-junction compensation.
- Observe the permitted potential differences between channels and earth.

03

OFFICIAL INSTALLATION REFERENCE

Compensation by means of a resistance thermometer at the 2AI RTD

If thermocouples that are connected to the inputs of the 4AI TC ST have the same reference junction, compensate by means of a 2AI RTD.

For both channels of the 4AI TC ST module, you can select "RTD" or "None" as the reference junction. If you select "RTD," the same reference junction (RTD channel) is always used for both channels.

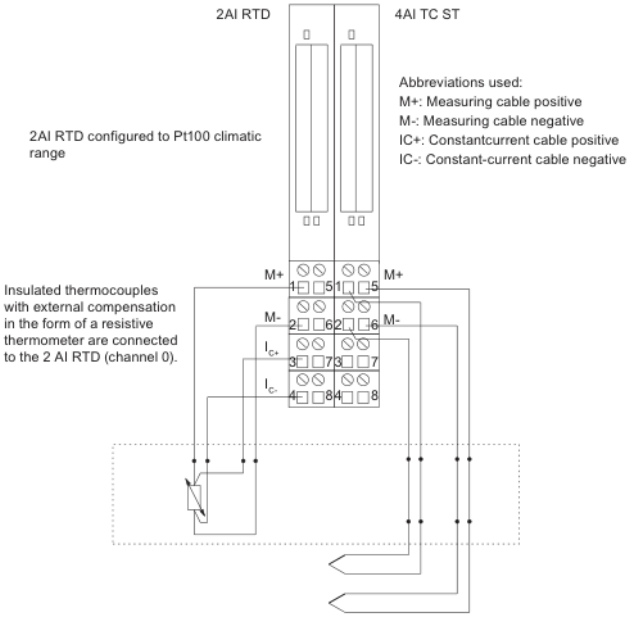


Figure 5-1 Compensation by means of the 2AI RTD

Note

In the case of 2/4AI RTD ST analog electronic module, use the channels 0 and 1 for compensation.

Official manufacturer page reproduced at its original aspect ratio.

04 COMMISSIONING CHECKS

01	Confirm 4AI TC ST in the ET 200S hardware project.
02	Reserve eight input bytes and configure suppression and diagnostics.
03	Inspect the reference sensor or external compensation box.
04	Test each input using a matching thermocouple simulator.
05	Confirm the reference temperature and channel scaling.
06	Test enabled wire-break diagnostics and SF indication.

05 CONTROLLED DOCUMENT

Official source	Siemens 4AI TC ST Manual A5E02515312-01, 10/2009.
Product record	6ES7134-4JD00-0AB0
Manufacturer	Siemens
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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