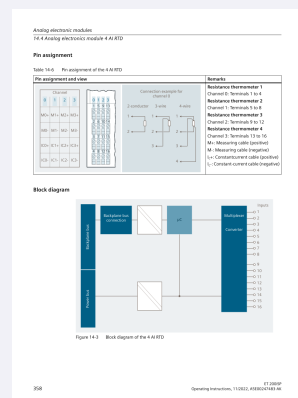


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

6ES7134-7SD51-0AB0

RTD analog input module



PRODUCT	6ES7134-7SD51-0AB0
TERMINAL MODULE	TM-IM/EM or TM-EM/EM
INPUT FUNCTION	4 RTD / resistance channels
SOURCE	A5E00308257-06; A5E00247483-AK

Never install under explosive conditions. Apply the enclosure and intrinsic-safety requirements in the complete Siemens instructions and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

Sensors	Pt100 / Ni100 or resistance
Input ranges	600 ohm / 1000 ohm absolute
Wiring	2-wire, 3-wire or 4-wire
Shielded cable	500 m maximum
Channel isolation	No channel-to-channel isolation

02

MECHANICAL MOUNTING

- Confirm the exact module and the terminal module before insertion.
- Reject damaged modules and preserve the mechanical coding.
- Zone 1 requires the specified Ex e enclosure; Zone 2 requires at least IP54.
- Observe the permissible ET 200iSP station configuration.

OFFICIAL CONNECTION DRAWING

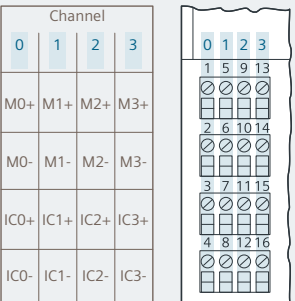
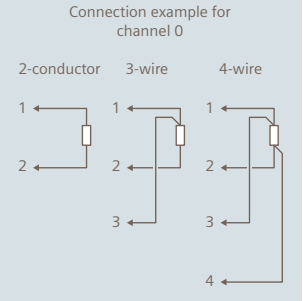
Siemens ET 200iSP Operating Instructions, section 14.4, page 358. Read the complete source together with the applicable installation and hazardous-area requirements.

Analog electronic modules

14.4 Analog electronics module 4 AI RTD

Pin assignment

Table 14-6 Pin assignment of the 4 AI RTD

Pin assignment and view				Remarks
				Resistance thermometer 1 Channel 0: Terminals 1 to 4 Resistance thermometer 2 Channel 1: Terminals 5 to 8 Resistance thermometer 3 Channel 2: Terminals 9 to 12 Resistance thermometer 4 Channel 3: Terminals 13 to 16 M+: Measuring cable (positive) M-: Measuring cable (negative) I _C +: Constant current cable (positive) I _C -: Constant current cable (negative)
				

Block diagram

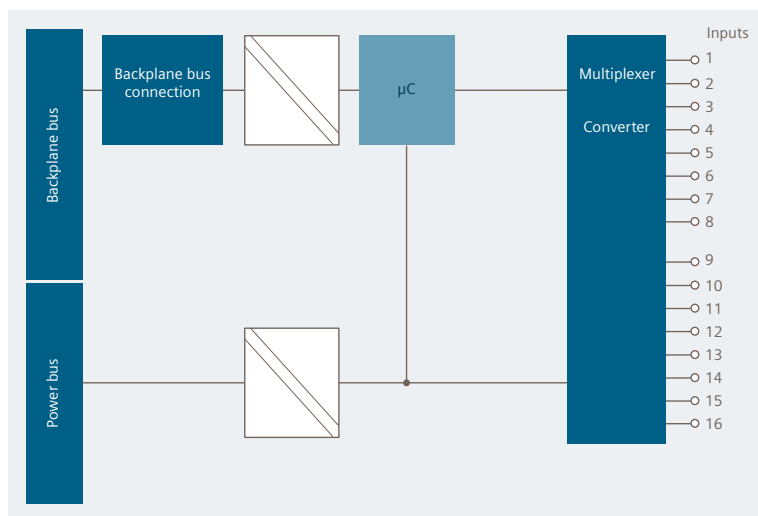


Figure 14-3 Block diagram of the 4 AI RTD

04

CABLE ROUTING AND CONNECTION

- Separate intrinsically safe and non-intrinsically safe wiring into separate cable ducts.
- Check sensor and cable entity parameters against the module and the applicable Ex certificate.
- Use channel 0 terminals 1-4, channel 1 terminals 5-8, channel 2 terminals 9-12 and channel 3 terminals 13-16.
- Follow the official two-, three- or four-wire diagram; M identifies measurement leads and IC identifies constant-current leads.

05

CONFIGURATION AND SYSTEM CHECKS

- Restore the configured sensor characteristic, connection method, smoothing and 50/60 Hz interference suppression.
- Check measured values against known resistance or temperature references on every enabled channel.
- Check wire-break diagnostics and the red SF group-error indicator.
- Carry out the relevant inspection and functional checks under the manufacturer instructions before return to service.

06

CONTROLLED DOCUMENTS

[Siemens ET 200iSP Operating Instructions, section 14.4.](#)

[Siemens Product Information A5E00308257-06, English pp. 6-10.](#)

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