

SIMATIC PCS7 TC MTA

Product Data Sheet

6ES7650-1AF51-2XX0

Thermocouple Marshalled Termination Assembly

THERMOCOUPLE CHANNEL COUNT	PERMITTED SINGLE-FEED SUPPLY	MAXIMUM SUPPLY CURRENT	TYPICAL POWER DISSIPATION
8	21.6 to 28.8 V DC	0.243 A, all channels connected	1 W

Siemens 6ES7650-1AF51-2XX0 is a thermocouple marshalled termination assembly in the SIMATIC PCS7 TC MTA range. It is used for thermocouple field termination for compatible ET 200M analog input systems in compatible industrial automation projects.

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VERIFIED TECHNICAL DATA

Thermocouple channel count	8
Permitted single-feed supply	21.6 to 28.8 V DC
Maximum supply current	0.243 A, all channels connected
Typical power dissipation	1 W
Module power fuse	0.5 A, GMA-0.5A
Permitted conductor cross-section	0.205 to 2.08 mm ² , AWG24 to 14
Operating temperature	-25 to 60 deg C
Permitted humidity	5 to 95%, non-condensing
Reference-junction sensor	Pt100 RTD
Compensation error limit	±0.3 deg C or 0.6% of terminal temperature

ADDITIONAL PRODUCT DATA

Mounting rail	35 mm deep top-hat DIN rail
I/O connection	J1, 50-pin module connection
Compatible TC input modules	6ES7331-7PF11-0AB0; 7PF10 from E-Stand4
Field connections	Two fixed terminal blocks, TC+, TC- and shield
Power-monitor board option	Not available

DOCUMENTED USE SETTINGS

Chemical and Petrochemical Production Processes: Chemical Manufacturing Process Control.

Electric Power Generation and Energy Production: Thermal Power Generation Processes.

Metal Production and Materials Processing: Steel Rolling Process Control.

SYSTEM COMPATIBILITY

Integrate 6ES7650-1AF51-2XX0 only in the documented SIMATIC PCS7 TC MTA configuration. Match the installed interfaces and the engineered application before selecting this thermocouple marshalled termination assembly.

PRODUCT EVIDENCE

Siemens Marshalled Termination Assemblies for ET200M Remote I/O, A5E00482820-09, TC MTA chapter8; naked drawingp.21 and Mall net weight0.365kg

AMIKON PRODUCT SUPPORT

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