

SIMATIC ET 200PA SMART

Product Data Sheet

6ES7650-8AR60-1AA0

Eight-channel thermocouple and RTD input module

THERMOCOUPLE INPUT CAPACITY	RTD INPUT CAPACITY	INPUT GROUPS	BACKPLANE SUPPLY
8 channels	4 channels	4	5 V DC

Siemens 6ES7650-8AR60-1AA0 is the AI 8 x TC / 4 x RTD module for SIMATIC ET 200PA SMART process I/O. This coated module acquires thermocouple, resistance-thermometer and resistance measurements in compatible process-control stations.

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VERIFIED TECHNICAL DATA

Thermocouple input capacity	8 channels
RTD input capacity	4 channels
Input groups	4
Backplane supply	5 V DC
Backplane supply current	120 mA maximum
Typical module power loss	0.6 W
Maximum field cable length	200 m, 50 m for thermocouples and ≤80 mV ranges
Permitted common-mode voltage	75 V DC, 60 V AC
Insulation test voltage	500 V AC, 707 V DC
Fast conversion resolution	9 bits plus sign at 2.5 ms

ADDITIONAL PRODUCT DATA

Standard conversion resolution	12 bits plus sign at 16.67/20 ms
High-resolution conversion	15 bits plus sign at 100 ms
Pt100 measurement range	-200 to +850 deg C
Ni100 measurement range	-60 to +250 deg C
Resistance input ranges	0 to 176.383, 352.767 or 705.534 ohm

DOCUMENTED USE SETTINGS

Chemical Production and Thermal Processing: Bulk Chemical Process Manufacturing.

Refining and Petrochemical Process Production: Petroleum Refining Process Production.

Pharmaceutical Production and Batch Processing: Pharmaceutical Ingredient Batch Production.

SYSTEM COMPATIBILITY

6ES7650-8AR60-1AA0 is the eight-channel thermocouple and rtd input module for SIMATIC ET 200PA SMART. Match the installed companion hardware and documented interface allocation before connection.

PRODUCT EVIDENCE

Siemens SIMATIC ET 200PA SMART manufacturer documentation

AMIKON PRODUCT SUPPORT

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