

SIMATIC S7-1200 SM1231 RTD

Product Data Sheet

6ES7231-5PF32-0XB0

Eight Channel RTD Input Module

RTD INPUT COUNT	NOMINAL SUPPLY	TYPICAL SUPPLY CURRENT	TYPICAL BACKPLANE CURRENT
8	24 V DC	40 mA	80 mA at 5 V DC

Siemens 6ES7231-5PF32-0XB0 is a eight channel rtd input module in the SIMATIC S7-1200 SM1231 RTD range. It is intended for compatible industrial automation projects requiring the documented resistance-thermometer acquisition.

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VERIFIED TECHNICAL DATA

RTD input count	8
Nominal supply	24 V DC
Typical supply current	40 mA
Typical backplane current	80 mA at 5 V DC
Typical active power loss	1.5 W
Conversion principle	Integrating
Input resolution	15 bit plus sign
Resistance input ranges	150, 300 and 600 ohm
Supported platinum RTDs	Pt10, Pt50, Pt100, Pt200, Pt500, Pt1000
Supported nickel RTDs	Ni100, Ni120, Ni200, Ni500, Ni1000, LG-Ni1000

ADDITIONAL PRODUCT DATA

Supported copper RTDs	Cu10, Cu50, Cu100
Temperature units	Celsius or Fahrenheit
Interference suppression	85 dB at 50/60/400 Hz
Common-mode rejection	120 dB minimum
Ingress protection	IP20

DOCUMENTED USE SETTINGS

Food Processing and Commercial Beverage Production: Beverage Processing and Production.

Water Supply and Municipal Wastewater Treatment: Industrial Water Treatment Processes.

Pharmaceutical Manufacturing and Drug Formulation Production: Pharmaceutical Batch Process Control.

SYSTEM COMPATIBILITY

Integrate 6ES7231-5PF32-0XB0 only in the documented SIMATIC S7-1200 SM1231 RTD configuration. Match the installed interfaces and the engineered application before selecting this eight channel rtd input module.

PRODUCT EVIDENCE

Siemens 6ES7231-5PF32-0XB0 official product technical data, applicable pages 1, 2, 3

AMIKON PRODUCT SUPPORT

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