

Siemens 6DS1730-8AA

TELEPERM Eight-Channel Analog Input Module

Product scope

- Processes eight current or voltage measurement channels.
- Supports two-wire and four-wire transmitter connections.
- Allows channel-specific range selection.
- Requires the original range and transmitter-power settings to be preserved.

Manufacturer source

Siemens TELEPERM M manufacturer manual for analog input module 6DS1730-8AA.

This English product record summarizes manufacturer-verified function, operating principle, application and exact-model matching requirements.

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TELEPERM Eight-Channel Analog Input Module

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Operating voltage L+	24 V DC (20 to 33 V DC), 60 mA
Signal voltage PM	24 V DC (20 to 33 V DC), 18 mA
Backplane supply	5 V DC (4.75 to 5.25 V DC), 54 mA
Transmitter supply	24 V DC (20 to 33 V DC)
Typical power loss	1.9 W at 24 V
Input channels	8, common-potential
Current input ranges	4 to 20 mA and -20 to +20 mA
Voltage input range	-10 to +10 V
Maximum common-mode voltage, current input	9 V
Maximum common-mode voltage, voltage input	2 V
Typical common-mode rejection	80 dB
Typical series-mode rejection	40 dB
Maximum full-scale accuracy error	0.25%
Typical full-scale accuracy error	0.1%
Temperature coefficient	100 ppm/K
Operating temperature	0 to +55 deg C
Storage temperature	-40 to +70 deg C
Signal resolution	12 bit plus sign
Integration time at 50 Hz	80 ms per channel
Integration time at 60 Hz	66 ms per channel
Eight-channel cycle time	Less than 640 ms
Approximate weight	420 g
Module fuse	1 A fast acting
Transmitter fuses	1 A fast acting
Mechanical format	Double-height Eurocard, 233.4 x 160 mm, 30.48 mm front panel, 2 SEP

Official references

- Siemens TELEPERM M manufacturer manual for analog input module 6DS1730-8AA.

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Function

The module converts eight process-current or voltage inputs into digital measurement values for the TELEPERM automation system.

Operating principle

Each channel is configured for its required range, multiplexed into the conversion path and transferred to the controller within the documented scan cycle.

Application

It supports transmitter and direct analog measurements in AS 220, AS 230, AS 235 and compatible engineering-system arrangements.

Replacement boundary

Verify every channel range, transmitter supply method, fuse, X2 wiring and board revision before installing the replacement.



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