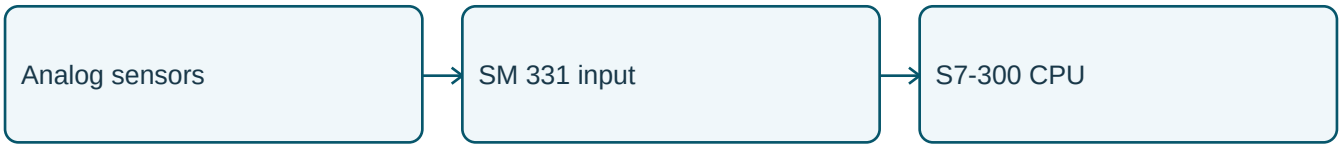
6ES7331-7NF10-0AB0

01 / Identity and system function

SM 331 Analog Input Module

Siemens 6ES7331-7NF10-0AB0 is an isolated SM 331 analog input module for SIMATIC S7-300. It brings eight analog measurement channels into the controller so configured field values can be processed by the PLC program. The selected measurement range, wiring and channel parameterization must agree with the installed sensors.

Product position



Technical characteristics

Product type	SM 331 isolated analog input module
Input channels	8 analog inputs
Voltage ranges	±5 V, ±10 V, 1-5 V
Current ranges	±20 mA, 0/4-20 mA

System integration

The module supports voltage and current measurement ranges including ±5 V, ±10 V, 1-5 V, ±20 mA and 0/4-20 mA, with a 16-bit conversion specification. It uses a 40-pole front connector and a 24 V DC load supply. Conversion time depends on channel configuration; the complete measurement chain also depends on sensor wiring and grounding.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

6ES7331-7NF10-0AB0

02 / Engineering data and service scope

Further characteristics

Conversion resolution	16 bit
Front connector	40-pole
Load supply	24 V DC

Applications include process-variable acquisition and machine monitoring where S7-300 control logic requires analog signals. During replacement, retain the range settings, channel assignment, diagnostics and cable identification from the original installation. Check the 40-pole connector, supply and configured grounding scheme before returning the inputs to service.

Applicability

The characteristics above describe the identified SIMATIC S7-300 execution of 6ES7331-7NF10-0AB0. Optional functions, connected devices and installed revisions must be checked against the complete marking and approved project configuration.

Technical basis

Siemens SIMATIC S7-300 SM 331 product datasheet, 6ES7331-7NF10-0AB0.

What is the product type of Siemens 6ES7331-7NF10-0AB0?

SM 331 isolated analog input module.

What is the input channels of Siemens 6ES7331-7NF10-0AB0?

8 analog inputs.

What is the voltage ranges of Siemens 6ES7331-7NF10-0AB0?

±5 V, ±10 V, 1-5 V.

Related Siemens references

Siemens 6ES7318-3EL01-0AB0

Siemens 6ES7412-2XG00-0AB0

Siemens 6ES7403-1TA01-0AA0

Product and installation enquiries

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