SIEMENS SIMATIC ET 200SP

Analog output module AQ 2xU ST (6ES7135-6FB00-0BA1)

Official specification excerpt - Siemens Equipment Manual A5E36105248-AB, pages 14-28

Product Identification

Complete model	6ES7135-6FB00-0BA1
Product family	SIMATIC ET 200SP
Product type	AQ 2xU ST analog output module
Article description	Two-channel voltage analog output module for ET 200SP
Hardware functional status	From FS21
Firmware version	V1.0.3; firmware update supported
Usable BaseUnits	BU type A0 and A1
Color code	CC00
Engineering	TIA Portal V13 SP1 or later; GSDML V2.3; PROFIBUS GSD Revision 5

Module Functions

Analog outputs	2 voltage output channels
Configurable diagnostics	Supply voltage, short circuit, overflow and underflow
Supported functions	Firmware update, I&M0; to I&M3;, configuration in RUN, PROFIenergy and value status
Connection	Two-wire voltage output connection

Electrical and Output Data

Supply voltage	24 V DC; permissible range 19.2 to 28.8 V
Current consumption	80 mA maximum
Power loss	1 W typical
Output ranges	0 to 10 V (15 bit); 1 to 5 V (13 bit); -5 to +5 V (15 bit including sign); -10 to +10 V (16 bit including sign)
Short-circuit current	45 mA maximum
Cycle time	1 ms minimum for all channels
Load impedance	2 kohm minimum for voltage outputs
Capacitive load	1 microfarad maximum
Shielded cable length	200 m maximum
Linearity error	+/-0.03 percent of output range
Repeat accuracy at 25 deg C	+/-0.05 percent of output range
Operational error limit	+/-0.5 percent of output range
Basic error limit at 25 deg C	+/-0.3 percent of output range

Diagnostics and Isolation

Diagnostics function	Yes; diagnostic alarm and substitute values supported
Isolation	707 V DC type test
Potential separation	Channels isolated from backplane bus and electronics power supply; channels are not isolated from each other

Mechanical and Environmental Data

Dimensions	15 x 73 x 58 mm (W x H x D)
Weight	Approximately 31 g
Operating temperature, horizontal	-30 to +60 deg C; operation below 0 deg C from FS03
Operating temperature, vertical	-30 to +50 deg C; operation below 0 deg C from FS03
Installation altitude	Up to 5,000 m; restrictions above 2,000 m per ET 200SP system manual

Official Source

Siemens Industry Online Support: Analog output module AQ 2xU ST (6ES7135-6FB00-0BA1), Equipment Manual, 01/2025, document A5E36105248-AB. Technical specifications are on printed pages 26-28.

https://support.industry.siemens.com/cs/attachments/109481115/et200sp_aq_2xu_st_manual_en-US_en-US.pdf