

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

Siemens 6ES7135-6HD00-0BA1

SIMATIC ET 200SP | AQ 4xU/I ST

PLATFORM	BASEUNIT	SUPPLY	OUTPUTS
ET 200SP	A0 / A1	24 V DC	4 U/I channels

For qualified personnel. Follow the Siemens module and ET 200SP system manuals and site safety procedures; this quick guide does not replace them.

01 BEFORE WIRING

Order-code check	Confirm 6ES7135-6HD00-0BA1 and the installed module version
Potential-group arrangement	The first BaseUnit of a station must be light-colored
Permissible supply range	19.2 to 28.8 V DC; L+ and M at the BaseUnit
Actuator-load limits	Voltage: at least 2 kohm; current: at most 500 ohm
Mounting temperature	Horizontal up to 60 C; vertical up to 50 C; derating applies

02 SIGNAL CONFIGURATION

- Match each channel to the connected actuator: voltage or current and the correct output range.
- Use the exact terminal diagram on the next page; sense terminals are not a separate 24 V supply.
- Disable unused channels. Set and verify the required response to CPU STOP before operation.

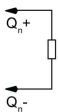
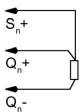
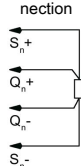
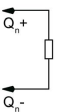
03 OFFICIAL TERMINAL ASSIGNMENT

Wiring up 3

3.1 Terminal assignment

General terminal assignment

Table 3- 1 Terminal assignment

Terminal assignment for AQ 4×U/I ST (6ES7135-6HD00-0BA1)						
Terminal	Assign- ment	Terminal	Assignment	Explanation	BaseUnit ¹	Color identifica- tion label
1	Q ₀ +	2	Q ₁ +	• Q _n +: Analog out- put voltage/current (positive), chan- nel n	A0 A1	---
3	Q ₂ +	4	Q ₃ +			
5	Q ₀ -	6	Q ₁ -			
7	Q ₂ -	8	Q ₃ -	• Q _n -: Analog output voltage/current (negative), chan- nel n		
9	S ₀ +	10	S ₁ +			
11	S ₂ +	12	S ₃ +			
13	S ₀ -	14	S ₁ -	• S _n +: Sensor line positive, channel n		
15	S ₂ -	16	S ₃ -			
L+	24 VDC	M	M	• S _n -: Sensor line negative, chan- nel n		
Voltage 2-wire connection		Voltage 3-wire connection		Voltage 4-wire con- nection	Current	
						

¹ Usable BaseUnit types, can be identified by the last two digits of the article number.

Note

The first BaseUnit of a station must be a light-colored BaseUnit. Also keep this in mind during the configuration.

You will find additional information on the BaseUnit types in the ET 200SP distributed I/O system (<http://support.automation.siemens.com/WW/view/en/58649293>) system manual.

04 COMMISSIONING CHECKS

01	Verify the BaseUnit type, potential group, supply polarity and channel wiring against the Siemens drawing.
02	Select the output type/range and confirm the configured addresses and channel enable state.
03	Verify CPU STOP behavior: switch off, retain the last value or use the engineered substitute value.
04	Check PWR, DIAG and channel LEDs and resolve diagnostics before releasing the actuator to operation.
05	Confirm the output at the actuator against the configured range and applicable load/derating limits.
06	For replacement, check the actual hardware/firmware version and use the applicable current Siemens instructions.

05 DIAGNOSTIC CHECKS

- No load voltage (11H): check L+ on the BaseUnit and the BaseUnit type.
- Wire break (6H): check the current circuit, total impedance and whether the channel is connected or disabled.
- Parameter error (10H): correct the channel parameter assignment; high/low limit errors require checking the commanded value.

Original Siemens manual - wiring pp. 14-15; diagnostics pp. 21-24

Supply and mounting: pp. 25-28. Configuration and CPU STOP: pp. 16-20. A standard AQ module alone does not provide fail-safe shutdown; a safety application needs the complete approved architecture.

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