

SIMATIC ET 200SP

Installation Instructions

6ES7134-6HD01-0BA1

AI 4xU/I 2-Wire ST Module

INPUTS	WIRING	RESOLUTION	BASEUNIT
4 U/I	2-wire	16 bit	A0 / A1

01 PRODUCT VERIFICATION

Article number	6ES7134-6HD01-0BA1
Product	AI 4xU/I 2-Wire ST Module
Family	SIMATIC ET 200SP
Product type	AI 4xU/I 2-wire ST
Analog inputs	4 differential inputs
Connection	Voltage and 2-wire current
Usable BaseUnits	BU type A0, A1
Color code	CC03

02 BEFORE INSTALLATION

- De-energize the ET 200SP station and field supply before inserting or wiring the module.
- Install the module on a compatible BaseUnit A0 or A1 and begin the load group with a light BaseUnit.

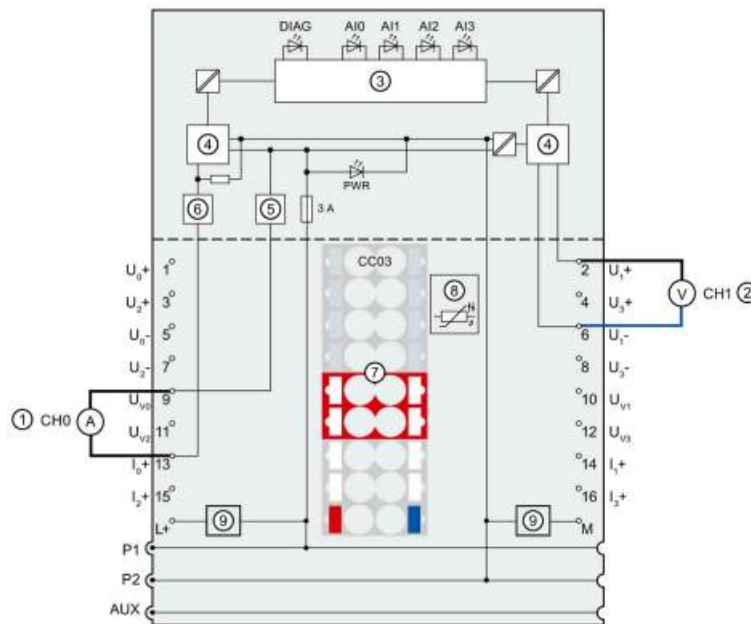
The selected Siemens source page is retained as the installation and wiring reference. Use the current controlled manual for final work.

Wiring up

3.1 Wiring and block diagram

Wiring: Voltage and current measurement 2-wire connection

The following figure shows the block diagram and an example of the terminal assignment of the analog input module AI 4xU/I 2-wire ST on the BaseUnit BU type A0/A1.



- | | | | |
|---|---|----------------------|---|
| ① | 2-wire connection for current measurement (2-wire transducer) | U_{n+} | Voltage input positive, channel n |
| ② | 2-wire connection for voltage measurement | U_{n-} | Voltage input negative, channel n |
| ③ | Backplane bus interface | U_n | Supply voltage, channel n |
| ④ | Analog-to-digital converter (ADC) | I_{n+} | Current input positive, channel n |
| ⑤ | Short-circuit protection | $L+$ | 24 V DC (infeed only with light BaseUnit) |
| ⑥ | Current limitation | M | Ground |
| ⑦ | Color-coded label with color code CC03 (optional) | $P1, P2, AUX$ | Internal self-assembling voltage buses
Connection to left (dark BaseUnit)
Connection to left interrupted (light BaseUnit) |
| ⑧ | Temperature recording for BU type A1 only (function cannot be used for this module) | $DIAG$ | Diagnostics LED (green, red) |
| ⑨ | Supply voltage filter circuit (only when light BaseUnit is present) | $AI0, AI1, AI2, AI3$ | Channel status LED (green) |
| | | PWR | Power LED (green) |

Figure 3-1 Wiring and block diagram for voltage and current measurement

04 INSTALLATION SEQUENCE

01

De-energize the ET 200SP station and field supply before inserting or wiring the module.

02

Install the module on a compatible BaseUnit A0 or A1 and begin the load group with a light BaseUnit.

03

Wire each channel for either voltage measurement or a 2-wire current transducer as shown in the Siemens diagram.

04

Verify the measuring type, range and diagnostics in the engineering configuration before commissioning.

05 OFFICIAL DOCUMENTATION

ET 200SP AI 4xU/I 2-Wire ST Equipment Manual (A5E03572832-AF)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

06 SUPPORT CONTACT

AMIKON PRODUCT SUPPORT

Amikon Limited

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM