

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

6DL1164-6GH00-0PH1

16-channel analog input module



PRODUCT	6DL1164-6GH00-0PH1
FAMILY	SIMATIC ET 200PA SMART+
FUNCTION	16-channel analog input module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from ET 200SP documentation. This guide supplements the complete manufacturer manual and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

Analog Inputs	16 current channels
Input Connection	2-wire transmitters
Signal Ranges	0–20 mA and 4–20 mA
Resolution	16 bit including sign
Input Resistance	250 ohm
Module Cycle Time	400 ms minimum

02

PREPARATION AND CONNECTION

- Confirm the complete 6DL1164-6GH00-0PH1 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

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Data sheet

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ET 200PA SMART+, analog input module, AI 16xI 2-wire PA, suitable for terminal block, see System Manual, channel diagnostics

General information	
Firmware version	
• FW update possible	Yes
Usable terminal block	see the system manual
Product function	
• I&M data	Yes; I&M 0
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	- / -
• STEP 7 configurable/integrated from version	- / -
• PCS 7 configurable/integrated from version	V9.1 SP2
• PCS neo can be configured/integrated from version	V5.0
Operating mode	
• Oversampling	No
• MSI	No
Redundancy	
• Redundancy capability	No
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
Calibration possible in RUN	No
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
Current consumption (rated value)	350 mA
Encoder supply	
Number of outputs	16
Output voltage (DC)	24 V
Output voltage, min.	19.2 V
Short-circuit protection	Yes
24 V encoder supply	
• 24 V	Yes
• Short-circuit protection	Yes; Per output, thermal
• Output current per channel, max.	46 mA
• Output current per module, max.	0.8 mA
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
• Address space per module, max.	34 byte; 32-byte inputs and 2 bytes for QI information

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04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Siemens official product documentation
Product record	6DL1164-6GH00-0PH1
Manufacturer	ET 200SP
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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