

AMIKON TECHNICAL DOCUMENTATION

# Installation Instructions

Siemens 6ES7155-5BA00-0AB0

SIMATIC ET 200MP | IM 155-5 DP ST

|                  |             |          |         |
|------------------|-------------|----------|---------|
| PLATFORM         | BUS         | ADDRESS  | SUPPLY  |
| SIMATIC ET 200MP | PROFIBUS DP | 1 to 125 | 24 V DC |

For qualified personnel. Follow the applicable Siemens system/module manuals and site safety procedures. Secure the machine and isolate the affected circuits before changing wiring. Module hot swapping is not supported.

01

## BEFORE CONNECTION

|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| Verify product identity       | 6ES7155-5BA00-0AB0; IM 155-5 DP ST; confirm installed FS/FW                          |
| Check station configuration   | One power segment; maximum 12 I/O modules and 14 W backplane budget                  |
| Check power source            | Use the documented 24 V DC SELV/PELV supply arrangement                              |
| Check mounting space          | 35 x 147 x 129 mm module; allow clearance for connectors and opening the front cover |
| Match the engineering project | PROFIBUS DP device/GSD, module order, addresses and applicable device revision       |

02

## WIRING REFERENCE

- Consult original manual pp. 11-13 for terminals, the block diagram and address switches; dimension drawings are on pp. 37-38.
- Follow the complete system manual for mounting, grounding, shielding, cable routing and commissioning. This guide does not supply undocumented torque or clearance values.

## 03 POWER & PROFIBUS CONNECTIONS

|                    |                                                 |
|--------------------|-------------------------------------------------|
| 1L+ / 2L+          | 24 V DC / loop-through; internally bridged      |
| 1M / 2M            | Ground / loop-through; internally bridged       |
| Loop-through limit | 10 A maximum, as specified in manual table 3-1  |
| 9-pin D-sub, pin 3 | RxD/TxD-P: data line B                          |
| 9-pin D-sub, pin 8 | RxD/TxD-N: data line A                          |
| Pins 4 / 5 / 6     | RTS / M5V2 station ground / P5V2 station supply |

## 04 ADDRESS & FUNCTIONAL CHECKS

- Set a unique address from 1 to 125 with the DIP switches behind the front cover. It must match the address in the configuration software.
- After an address change, close the cover and perform a controlled power-off/power-on transition; the new address is not applied immediately.
- Check the 14 W budget, U connectors, permitted module count and configured module sequence if the station does not exchange process data.
- Use RUN, ERROR and MAINT together with STEP 7 module status and the CPU diagnostic buffer. LED appearance alone is not a complete fault diagnosis.

## 05 OFFICIAL INSTRUCTIONS

Siemens module manual - wiring pp. 11-13; diagnostics pp. 15-16, 24

Current Siemens product specifications

Wiring basis: A5E32346748-AA, 08/2013. For revision-dependent voltage, temperature and engineering limits, verify the current exact-model specifications before installation.

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