

Interface N 148/04 5WG1 148-1A04 RS 232, with standard and FT1.2 protocol

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Product and Applications Description

The RS232 interface N 148/04 is a N-system DIN-rail mounted device.

The device with integrated bus coupling unit 2.1 is connected to the bus line via the pressure contact system.

The N 148/04 interface provides a galvanically separated connection to the bus system via its built-in Sub D 9-pin connector socket. The connection to the PC is made between the 9-pin SUB D-socket of the interface N 148/04 and the COM 1 or COM 2 interface of the PC.

It enables a personal computer (AT compatible PC) to be connected for addressing, parameterising, visualising, logging and diagnosis of bus devices.

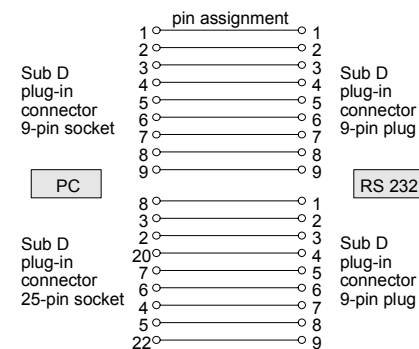
With the N 148/04 interface it is possible to operate all bus devices in the whole bus system with one of two selectable protocols: the standard protocol and the FT1.2 protocol.

The standard protocol is used e.g. by ETS. The FT1.2 protocol is used by various operator software packages and software interfaces.

Additional Information

<http://www.siemens.de/gamma>

Example of Operation



Technical Specifications

Connections

- bus line, pressure contacts on data rail
- RS 232 interface: 9-pin Sub D socket
length of data cable: max. 15 m
- connection cable available from authorised electronics stores (see example of operation)

Physical specifications

- N-system DIN-rail mounted device,
width: 3 SU (1SU = 18mm)
- weight: approx. 160 g

Electrical safety

- protection (according to EN 60529): IP 20

Environmental specifications

- ambient temperature operating: - 5 ... + 45 °C
- ambient temperature non-op.: - 25 ... + 70 °C
- relative humidity (non-condensing): 5 % to 93 %

Umweltbedingungen

- Umgebungstemperatur im Betrieb: - 5 ... + 45 °C
- Lagertemperatur: - 25 ... + 70 °C
- rel. Feuchte (nicht kondensierend): 5 % bis 93 %

Location and Function of the Display and Operator Elements

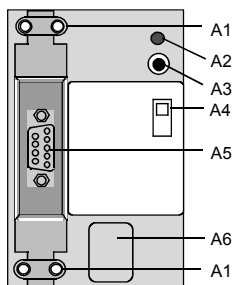


Figure 1: Location of the display and operator elements

- A1 Clamp for connection cable (max. Ø 8 mm)
- A2 LED for indicating normal operating mode (LED off) and addressing mode (LED on); upon receiving the physical address the device automatically returns to normal operating mode
- A3 Learning button for switching between normal operating mode and addressing mode for receiving the physical address
- A4 Slider switch to change between the protocols standard (bottom position) and FT1.2 (top position)
- A5 9-pin Sub D socket
- A6 Label for noting the physical address

Installation Instructions

- The device may be used for permanent interior installations in dry locations within distribution boards or small casings with DIN rail EN 60715-TH35-7,5.

WARNING

- The device may be built into distribution boards (230/400V) together with appropriate VDE-devices.
- The device must be mounted and commissioned by an authorised electrician.
- The 9-pin Sub D socket must be covered (cover is part of the package).
- Free DIN rail areas with sticked-in data rails must be covered with covers, order no. 5WG1 192-8AA01.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

General description

The N-system DIN-rail device can be installed to N-system distribution boards, surface or flush mounted, or to any DIN-rail available that has a data rail installed. The connection to the bus line is established by clicking the device onto the DIN-rail (with a data rail installed). Take care that the type plates of all devices on a DIN-rail can be read in the same direction, guaranteeing the devices are polarised correctly.

General Notes

- Any faulty devices should be returned to the local Siemens office.
- If you have further questions about the product, please contact out Technical-Support:
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☎ +49 (180) 5050-223
✉ adsupport@siemens.com