IEMENS



Interface N 148

RS 232

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Product and Applications Description

The N 148 interface with its built-in Sub D 9-pin plug-and-socket device, enables a personal computer (AT compatible PC) to be connected for addressing, parameterising, visualising, logging and diagnosis of bus device

With the N 148 interface it is possible to operate all bus devices in the whole bus system.

It allows devices isolated access to the bus line when a specified transmission protocol has to be adhered to.

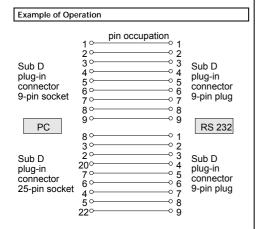
The N 148 interface is a device of N-system dimensions designated to be installed in standardised terminal boxes

The connection to the bus line is realised via the pressure contact system at the built-in bus coupling unit.

The connection to the PC is arranged between the 9-pin SUB Dsocket of the interface N 148 and the COM 1 or COM 2 interface

Application Programs

See Siemens product database from version E onward



Technical Specifications

Power supply via bus cable

Transmission rate

9600 bit/s

Control elements

1 learning button: for switching between normal operating mode and addressing mode

Display elements 1 red LED:

for monitoring bus voltage and displaying mode, selected with the learning button

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

- housing: plastic N-system DIN-rail mounted device,
- width: 3 SUs (1SU = 18mm) weight: approx. 180 g
- fire load: approx. 3000 kJ \pm 10 %
- installation: rapid mounting on DIN EN 50022-35 x 7,5 rail

Electrical safety

- fouling class (according to IEC 664-1): 2 protection (according to EN 60529): IP 20
- protection class (according to EC 1140): III overvoltage class (according to IEC 1664-1): III
- bus: safety extra low voltage SELV DC 24 V
- the device complies with EN 50 090-2-2 and IEC 664-1: 1992

Reliability

rate of failure: 736 fit at 40 °C

Electromagnetic compatibility complies with EN 50081-1, EN 50082-2 and EN 50090-2-2

Environmental specifications

- climatic conditions: EN 50090-2-2
- ambient temperature operating: 5 ... + 45 °C ambient temperature non-op.: 25 ... + 70 ° C •
- relative humidity (non-condensing): 5 % to 93 %
- Certification

EIB certificate

CE norm

complies with the EMC regulations (residential and functional buildings), and low voltage regulations



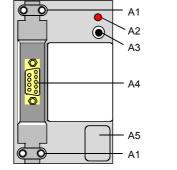


Figure 1: Location of the display and operator elements

- Clamp for connection cable (max. Ø 8 mm)
- LED for indicating normal operating mode (LED off) and addressing mode (LED on); upon receiving the physical A2 address the device automatically returns to normal operating mode
- Learning button for switching between normal A3 operating mode and addressing mode for receiving the physical address
- 9-pin Sub D socket $\Delta 4$
- A5 Label for noting the physical address

Installation Instructions

The device may be used for permanent interior installations in dry locations within distribution boards.

WARNING

- The device may be built into distribution boards (230/400 V) together with appropriate VDE-devices and must be mounted and commissioned by an authorised electrician
- The 9-pin Sub D socket must be covered! (cover included)
- 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. A device suspected faulty
- should be returned to the local Siemens office

Mounting and Wiring

General description

General description The N-system DIN-rail device (3 SUs) can be installed to N-system distribution boards, surface or flush mounted, or to any DIN-rail EN 50022-35 x 7,5 available that has a data installed. The connection to the bus line is established by clicking the de-vice 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 core. same direction, guaranteeing the devices are polarised correctly

- Mounting DIN-rail devices (Figure 2)
 Slide the device (B1) onto the DIN-rail (B2) and swivel back the device (B1) until the slide clicks into place audibly
- Dismounting DIN-rail devices (Figure 2)
- Remove the cover. Remove the clamps for connection cables
- Unplug the 9-pin Sub D connector.
- Press down the slide (C3) with a screw-driver and swivel the device (C1) from the DIN-rail (C2).
- C1 C3