

## Product and Applications Description

The logic module N 301 is a N-system DIN-rail mounted device. It allows the use of logic operations on group addresses received. One or more results of such logic operations can be returned to the bus as group telegrams.

Appropriate application programs are available for the different tasks the logic module N 301 can handle; e.g. the number of logical inputs and outputs and specific logic operations can be selected, the sending may be controlled according to the outcome of a certain logic operation.

With the ETS (EIB Tool Software) the application program is selected, its parameters and addresses are assigned appropriately, and downloaded to the logic module N 301.

## Application Programs

See Siemens product database from version E onward

## Technical Specifications

**Power supply**  
via bus cable

**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

**Physical specifications**

- plastic casing
- N-system DIN-rail mounted device, width: 1 SU (1 SU = 18 mm)
- weight: approx. 100 g
- fire load: approx. 1150 KJ ± 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 IEC 1140): III
- overvoltage class (according to IEC 664-1): III
- bus: safety extra low voltage SELV DC 24 V
- device complies with EN 50 090 and IEC 664-1

**Reliability**  
rate of failure: 424 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

## Location and Function of the Display and Operator Elements

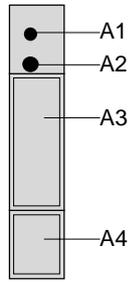


Figure 1: Location of the display and operator elements

- A1 LED for indicating normal operating mode (LED off) and addressing mode (LED on); on receiving the physical address the device automatically returns to normal operating mode
- A2 Learning button for switching between normal operating mode and addressing mode for receiving the physical address
- A3 Type plate
- A4 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 (230/400V) together with appropriate VDE-devices only and must be mounted and commissioned by an authorised electrician.
- Free DIN rail areas 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

The N-system DIN-rail device (1 SU) can be installed to N-system distribution boards, surface or flush mounted, or to any DIN-rail EN 500022-35 x 7,5 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.

### Mounting DIN-rail devices (Figure 2)

- Slide the device (B1) onto the DIN-rail (B2) and
- swivel back the device until the slide clicks into place audibly.

### Dismounting DIN-rail devices (Figure 2)

- Press down the slide (C3) with a screw-driver and
- swivel the device (C1) from the DIN-rail (C2).

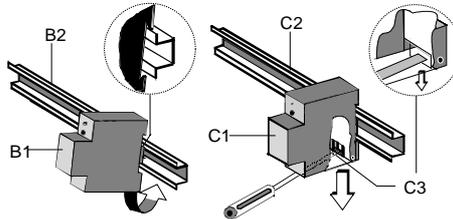


Figure 2: Mounting and dismounting a DIN-rail device