

Scene Module N 300
5WG1 300-1AB01
Product and Applications Description


The scene module N 300 is a N-system DIN-rail mounted device. It stores up to four scenes that can be restored via recall telegrams. A scene consists of switching/ dimming adjustments, optionally to be combined with e.g. extreme positions of venetian blinds. Additional information can be stored with each scene, e.g., whether the call switches on or off the heating or ventilation, or adjusts the convenience temperature of a thermostat or the set point for the brightness of a constant light control unit.

A scene is defined by the assignment of a set number of actuator group addresses. This assignment is identical for all four scenes. By using more than one scene module the maximum number of group addresses that can be allocated to one scene can be increased.

Appropriate application programs, e.g. for the various types of actuators, are available for the different tasks the scene module N 300 can handle.

With the ETS (*EIB Tool Software*) the application program is selected, its parameters and addresses are assigned appropriately, and downloaded to the scene module N 300.

Application Programs
12 CO Scene 740401

- 4 scenes
- up to 8 group addresses for dimming
- individual default settings can be specified for each scene

12 CO Scene 740501

- 4 scenes
- up to 8 group addresses for switching on/off or blinds control (can be specified for each individual group address)
- individual default settings can be specified for each scene

12 CO Scene 740601

- 4 scenes
- up to 4 group addresses for dimming and up to 2 group addresses for switching on/off or blinds control (must be set globally)
- individual default settings can be specified for each scene

12 CO Scene 740701

- 4 scenes
- state of actuator can be read via bus when programming scenes
- up to 6 group addresses for dimming
- individual default settings can be specified for each scene

12 CO Scene 740801

- 4 scenes
- state of actuator can be read via bus when programming scenes
- up to 6 group addresses for switching on/off or blinds control (can be specified for each individual group address)
- individual default settings can be specified for each scene

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 with a data rail installed 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.

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

- housing: plastic
- 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: 1992

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

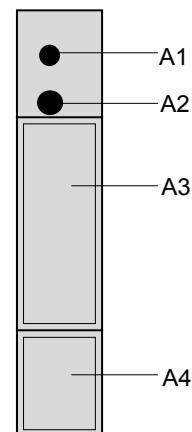


Figure 1: Location of the display and operator elements

- 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

Mounting and Wiring

General description

The N-system DIN-rail device can be installed to N-system distribution boards or to any DIN-rail EN 50022-35 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 (B1) until the slide clicks into place audibly.

Dismounting DIN-rail devices (Figure 2)

- Remove all connected wires,
- press down the slide (C3) with a screw-driver and
- swivel the device (C1) from the DIN-rail (C2).

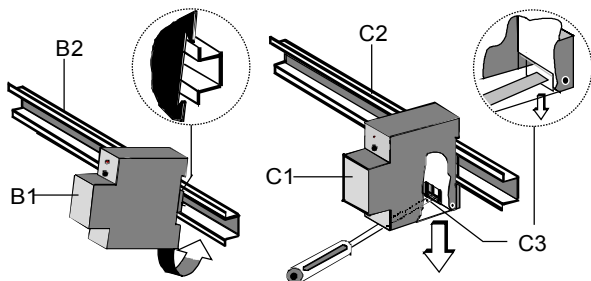
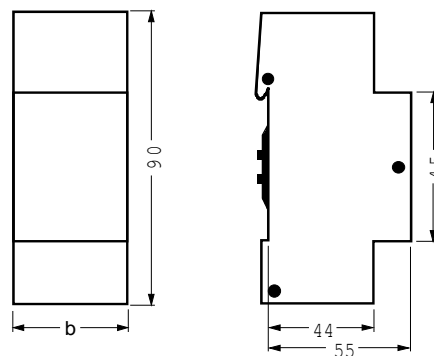


Figure 2: Mounting and dismounting a DIN-rail device

Dimension Diagram

Dimensions in mm



1 Spacer Unit (SU) = 18 mm

b = 1 SU

Notes