

4-Channel Time Switch
(Annual Scheduler)
REG 372 LCP3000EZ
Data Sheet



product GUIDE



SIEMENS

Global network of innovation

4-Channel Time Switch (Annual Scheduler) REG 372

5WG1 372-5 EY01



Product and Applications Description

The 4-channel time switch REG 372 (annual scheduler) is a DIN rail mounted device. The connection to EIB is made via a bus connector. The time switch offers: 324 switching times for selectable daily, weekly, and date instructions, impulse instructions, priority switching times, as well as 1 x instructions for vacation/holidays. For each channel, additionally, 9 further

week programs with priority levels P1 to P9 and a time-limited permanently switched circuit can be programmed besides the normal week program. Likewise, a random program can be activated. The period of a priority program is determined by input of a beginning and final date. The time switch calculates moving holidays (like Easter) automatically for each year.

Technical Specifications

POWER SUPPLY

Via bus line

POWER CONSUMPTION

ca. 8 mA (at bus voltage)

FUNCTIONAL DATA

- 4 channels
- Time base: quartz precision
- 324 memory locations in EEPROM
- Shortest switching interval: 1 second / minute
- Switching accuracy: 1 second
- Shortest impulse 1 second
- Time accuracy: ± 1 Sec at 20°C
- Power reserve: Lithium battery 1 1/2 year at 20°C
- Type of Lithium battery: CR 2450
- Daily, weekly, yearly and impulse programs as automatic programs
- Manual overrides:
 - temporary manual override
 - permanent manual override
- Programming: via 10-key keyboard or with PC programming set Obelisk and memory card Obelisk
- Block formation: Free block formation of week days and channels

CONTROL ELEMENTS

- 1 learning button: for switching between normal operating mode and addressing mode
- 15 soft tip buttons: for setting day of week, hour, minute, time, program entry and 2 manual overrides

DISPLAY ELEMENTS

- 1 red LED: for monitoring bus voltage and displaying mode selected with learning button
- LC Display: for display of time, day of week, day light savings mode, holiday program mode, switching status and manual control mode

CONNECTIONS

- Bus line: screw less bus connection block 0,6 ... 0,8 mm Ø single core

PHYSICAL SPECIFICATIONS

- Polymer casing
- Dimensions: DIN rail mounted device 45 x 105 x 60 mm (H x W x D), width 6 SU
- Weight: ca. 337 g
- Installation: rapid mounting on DIN EN 50022-35 x 7,5 rail

ELECTRICAL SAFETY

- Fouling class (according to IEC 60664-1): 2
- Protection (according to DIN EN 60529): IP 20
- Over voltage class (IEC 60664-1): III
- Bus: safety extra low voltage SELV DC 24V
- Device complies with: EN 50 090-2-2 and EN 60730-2-7

ELECTROMAGNETIC COMPATIBILITY

Complies with EN 50081-1, EN 61000-6-2 and EN 50090-2-2

ENVIRONMENTAL SPECIFICATIONS

- Ambient temperature operating: 23°F ... + 113 °F (-5°C.... 45°C)
- Ambient temperature non-operating: -13°F ... 158 °F (-25°C.... 70°C)
- Relative humidity (non-condensing): 5% ... 93%

CERTIFICATION

EIB certified

CE NORM

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

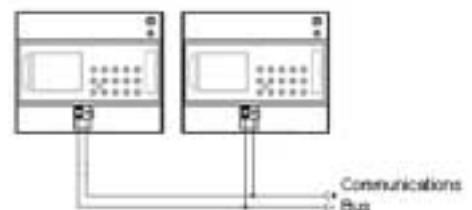
Accessories

Programming set Obelisk -
5WG1 810-0EY01

Obelisk memory card -
5WG1 810-8EY01

Connection example

REG 372 just need to be connected to the bus line.



Connection of REG 372

Installation Instructions

Despite extensive protection measures, exceptionally strong electromagnetic fields can lead to the destruction of the micro processor controlled time switch. Therefore we recommend that you observe the following points before installation:

- Use separate lead for the mains voltage supply.
- Suppress inductive loads with suitable RC filters.
- Do not mount product in direct proximity to sources of interference as e.g. transformers, contactors, PCs and TV and communication equipment.
- If interference occurs we recommend that you carry out a RESET (chapter 5.3 of Operating Instructions) before putting the device back into operation.
- Strong heat generating products on the right side of the product shorten the life of the battery.

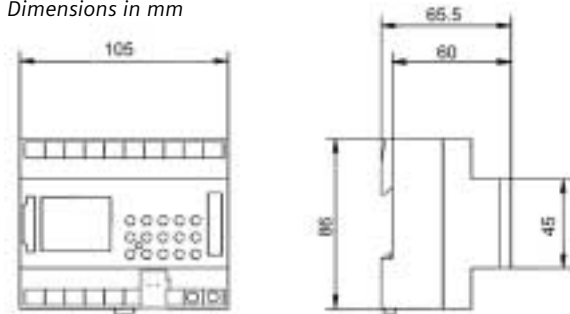


WARNING

- The prevailing safety and installation rules must be heeded.
- The device must not be opened. A device suspected faulty should be returned to the local Siemens office.

Dimension Diagram

Dimensions in mm



$b = 6 \text{ SU}$

1 Standard Unit (SU) = 17,5 mm

Mounting and Wiring

General description

The N-system DIN rail device can be installed in distribution boards and any other location or enclosure with DIN EN 50022-35 x 7,5 rails. The connection to the bus line is established through a front mounted bus connector block.

Mounting the device on a DIN rail (Figure 1)

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

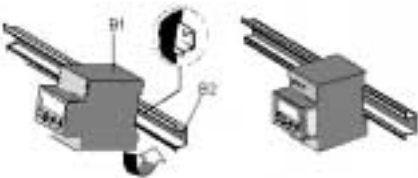


Figure 1: Mounting of DIN rail device

Dismounting the device from the DIN rail (Figure 2)

- Press down the slide (C3) with a screw driver and secure the slide in place by gently pressing it down.
- Swivel the device (C1) from the DIN rail (C2) to the front.

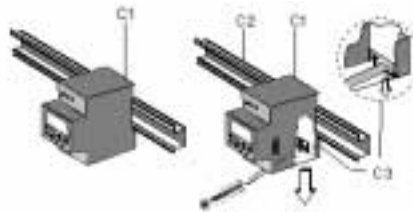


Figure 2: Dismounting of DIN rail device

Insert battery

- Note the polarity of the Lithium battery (type: CR 2450).
- Insert the Lithium battery into the holder.
- Push the battery holder into the battery compartment.
- Press the battery holder down until it audibly clicks in place.

Battery Changing

Note:

Always change the battery with bus voltage applied.

All memorized program data is maintained when the bus voltage is applied.

- Lift the battery draw with a suitable screw driver.
- Remove battery from the holder.
- Note the polarity of the new Lithium cell.
- Insert the Lithium battery (type: CR 2450) into the holder.
- Push the battery holder into the battery compartment.
- Press the battery holder down until it audibly clicks in place.
- Dispose of Lithium battery in an environmentally friendly way.

Start up of REG 372

- Connect the bus wire.
- Set summer/winter time date rule (European dates are preset).

Operator Elements

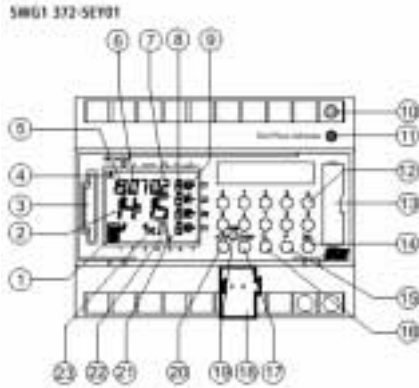


Figure 4a: Location of display and operator elements

- (1) Display data exchange with memory card Obelisk
- (2) Display hours
- (3) Interface
- (4) Cursor for program selection
- (5) Display date day
- (6) Display date month
- (7) Display year
- (8) Display r = random / P 1...9 / manual On (H C*) / manual Off (H C) / Permanent On (F+ C*) / Permanent Off (F + C)
- (9) Display status On = C*, Off = C
- (10) Programming - LED of BCU
- (11) Programming button for BCU
- (12) Buttons 0 – 9 for program entry
- (13) Battery compartment
- (14) Button for entry of date switching
- (15) Button for entry of priority programs/changes
- (16) Button for cancellation of programs and program steps
- (17) Button for entry of input
- (18) Bus connection
- (19) RES = Reset/the micro processor makes a defined new start
- (20) Program selection button for menu selection
- (21) Cursor for display of days of the week 1=Monday, 2=Tuesday, ...
- (22) Display for pulse programming
- (23) Display 1x shows single switching

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