For your safety

DANGER
Risk of serious damage to property and personal injury, e.g. from fire or electric shock, due to incorrect electrical installation.
Safe electrical installation can only be ensured if the person in question can prove basic knowledge in the following areas:
• Connection to installation networks
• Connecting several electrical devices
• Laying electric cables
These skills and experience are normally only possessed by skilled professionals who are trained in the field of electrical installation technology. If these minimum requirements are not met or are disregarded in any way, you will be solely liable for any damage to property or personal injury.

Getting to know IC Astro

IC Astro is an astronomical time switch that calculates the exact switching times for sunrise and sunset depending on location and time zone. Independently of this, 84 fixed switching times can be programmed. The device has one external input per channel to which you can connect buttons or switches. It is installed in electrical distributions on a TH35 DIN rail according to EN 60715. The device can be programmed on the device itself or via Kit LTS software. The programming key is used to transmit the data.

Product details

Mounting IC Astro

1. Position the IC Astro on the DIN rail.
2. Connect cables:
   – Remove 8 mm (max. 9 mm) of insulation
   – Open the plug-in terminal with a screwdriver and plug in the cable at a 45° angle. (max. 2 cables per plug-in terminal)

Setting IC Astro

You can make the settings of the IC Astro directly on the device or you can use Kit LTS, art. no. CCT15860, with the associated software (newest version: www.schneider-electric.com).

ASTRO menu

In the ASTRO menu you can check and alter Astro times, Offset, Astromode and Location.

• Astro times
  Display of the Astro times (sunrise and sunset) for the current day and per channel.

• Offset
  With the Offset you can shift the calculated Astro times per channel by +/- 2 h. With it, you can adapt the Astro switching times to the local circumstances (e.g. mountains, tall buildings, etc.).

• Astromode
  Three Astro switching times per channel are available:
  – Eve-On Off, Morning-On
  – Eve-Off Off, Morning-On
  – Astro inactive

Astro times are not effective, only programmed switching times are active.
PROGRAM menu
In the PROGRAM menu you can:
- Set the timer
- Select Form time (24 h, 12 h)
- Select Form date (D/M/Y, M/D/Y, Y/M/D)
- Define first day of the week (e.g. Monday for Europe)
- Select summer time/winter time (see list in the section "Putting IC Astro into operation")

TIME/DATE menu
In the TIME/DATE menu you can:
- Set the time (hour, minute)
- Set the date (year, month, day)
- Select summer time/winter time (see list in the section "Putting IC Astro into operation")
- Define first day of the week (e.g. Monday for Europe)
- Select Form date (D/M/Y, M/D/Y, Y/M/D)
- Select Form time (24 h, 12 h)

MANUAL menu
In the MANUAL menu you can:
- Set the timer
- Define holidays
- Define holidays
- Define holidays

CONFIG menu
In the CONFIG menu you can:
- Operating hours counter
- Display of the operating hours per channel. If necessary, you can reset the counter to zero.
- External input
- IC Astro has one external input per channel to which you can connect a button or switch.

Using the programming key
To make it easier to program the device, you can use the programming key after you have programmed it with the Kit LTS software.
- Plug the programming key into the interface
  You have four options:
  - Copy key -> TSWI
  - Copy TSWI -> Key
  - Copy all data

Operating IC Astro
Manual and permanent switching
You can operate IC Astro by a key combination. Manual and permanent switching are available for you.

Key combination for channel 1 (C1), channel 2 (C2)

Reset
You can reset the device with a key combination. Then you have to put the device into operation again (see section "Putting IC Astro into operation").

Key combination for reset

Technical data
Nominal voltage: AC 230 V (+10% / -15%)
Frequency: 50/60 Hz
Nominal current: 16 A, cos ϕ = 1
10 A, cos ϕ = 0.6
Minimum load: 100 mA, 12 V, ohmic
Incandescent lamps: AC 230 V, max. 2600 W
Halogen lamps: AC 230 V, max. 2600 W
Fluorescent lamps: AC 230 V, max. 2300 VA
Fluorescent lamps with electronic ballast: max. 730 W (80 μF), parallel-compensated
Compact fluorescent lamps with electronic ballast: 24 x 7 W, 15 x 11 W, 8 x 20 W
Mercury- and sodium-vapour lamps: max. 400 VA (42 μF), parallel-compensated
LED lamps: max. 30 W (LEDs <2 W)
max. 100 W (LEDs 2-8 W)
Motors: max. 2300 VA
Switch output: phase-independent (zero crossing switching)
Power consumption:
1C = max. 0.8 W
2C = max. 0.8 W
Ambient temperature: -25 °C to +45 °C
Connecting terminals: 2 x Ø 0.5 - max. 2.5 mm², fixed and flexible wires
Ext. input, cable length: max. 100 m
Battery life: 6 years
Mode of operation:
- Type 1 STU according to IEC/EN 60730-2-7
Degree of pollution: 2
Protection class: II per EN 60730-1 when installed correctly
Type of protection: IP 20 in accordance with EN 60529

Schneider Electric Industries SAS
If you have technical questions, please contact the Customer Care Center in your country.
www.schneider-electric.com