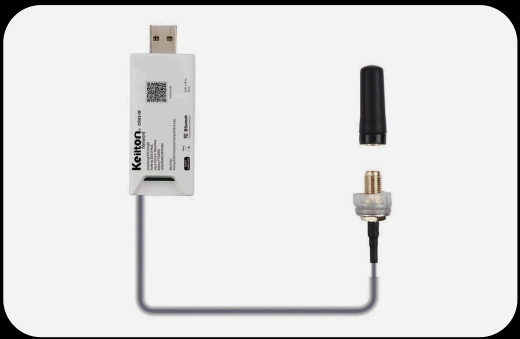
CR02 · Keilton+autani

Astronomical clock for outdoor lighting

The CR02 switches outdoor lighting in line with sunrise and sunset. It calculates the times itself from the site location and then switches luminaires, groups or scenes. A battery keeps the time during a power cut. It does not switch to daylight saving time automatically.



500 m
Range
With the TX5 antenna; up to 260 m with the supplied TX1.

16
Switching actions
Stored on and off commands per device.

±120 min
Astronomical offset
Switch up to 2 hours before or after sunrise/sunset.

IP65
Ingress protection
With the CR02-W-ENCL enclosure, IP20 without it.

BENEFITS

What the CR02 does for you

- **Lighting follows the sun**
  Switching on and off is based on sunrise and sunset at the site.
- **Large areas, wirelessly**
  Up to 260 m with the supplied antenna, up to 500 m with the TX5 – no control cables.
- **The time is kept**
  The internal battery keeps the time during a power cut, so schedules carry on.

AT A GLANCE

The CR02 in brief

Actions	**up to 16 per device**
Offset	**–120 to +120 min**
Daylight saving	**no automatic changeover**
Antenna	**TX1 included, TX5 optional**
Power supply	**USB 5 V or PPA102S.A1**
Location	**outdoors with enclosure**

IN THE SYSTEM

How the CR02 fits in

Outdoor luminaires
with the zone's sensors and controllers
→
CR02
timing based on the sun
→
CR05
gateway connects the zone
→
AU-Manager
status and energy data

The CR02 provides the time base; occupancy, switching status and energy data of the outdoor zone are recorded by the AU-Manager.

A GOOD FIT IF ...

- ✓ Car parks, outdoor areas and industrial sites
- ✓ Façade and pathway lighting
- ✓ Switching by sunrise and sunset

DIFFERENT REQUIREMENT?

Fixed schedules in indoor zones	**CR01**
Motion sensor for outdoor use	**EFS106W**
Central analysis of all zones	**AU-Manager**
More than 16 switching actions	**please ask**

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Planning and installation: info@buildingrobotics.de · +49 30 4397929208 · buildingrobotics.de/en/sensors/cr02/
Manufacturer data (Keilton+autani), as of November 2026. Subject to technical changes.

Technical data

TIME CONTROL		
Switching actions	**up to 16 per device**	Stored switching commands per CR02.
Astronomical offset	**–120 to +120 min relative to sunrise/sunset**	Shift relative to sunrise or sunset.
Daylight saving time	**no automatic changeover**	Adjust fixed times manually if needed.

ELECTRICAL AND WIRELESS		
Power supply	**USB 5 V**	Powered via USB or suitable accessories.
Wireless	**Bluetooth 5.0, 2.4 GHz**	Wireless networking, no control cables.
Range	**TX1: up to 260 m · TX5: up to 500 m**	Radio range depends on antenna; test on site.

ENVIRONMENT		
Temperature range	**–30 °C to 65 °C**	Designed for frost and summer heat.
Ingress protection	**IP20, IP65 with CR02-W-ENCL enclosure**	Outdoors only with the protective enclosure.
Environment	**Indoor / outdoor with accessories**	Outdoors only with the right accessories.
Standards	**CE, RoHS (EU Directive 2011/65/EU)**	CE-marked for the EU market, no restricted substances.

INSTALLATION

Position, power, set up actions

Position
Within range of the zone, not directly on metal or concrete.

Power
Via USB 5 V, PPA102S.A1 with UTP adapter or CR02-W-ENCL.

Location
Add it in the app, take over coordinates with “Get”.

Actions
Set up switching actions and test the range on site.

ORDERING

Items and accessories

CR02-W.A0	USB dongle with astronomical real-time clock
TX5	5 dBi antenna for up to 500 m range
UA0085	USB hub for power supply
CR02-W-ENCL	IP65 protective enclosure (please enquire about suitability for EU grids)

FREQUENTLY ASKED QUESTIONS

Does the CR02 switch to daylight saving time automatically?

No. According to the manufacturer's instructions, the CR02 does not support automatic daylight saving time changeover; the time setting remains fixed all year round and must be adjusted manually if required. Astronomical actions are based on sunrise and sunset.

How many switching actions can a CR02 execute?

Up to 16 actions per CR02-W. According to the manufacturer, 32 actions are possible with two devices.

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