CR01 · Keilton+autani

Clock and energy report for a lighting zone

The CR01 is a small USB dongle for a lighting zone. Its clock gives every device in the zone the same time, so schedules run precisely – even after a power cut. The CR01-ETC variant also records the status of each luminaire and produces an energy report from it.



15 min
Logging interval
How often the CR01-ETC records each luminaire's status.

1 per zone
Quantity
One dongle covers a whole zone, says the manufacturer.

CR2032
Backup battery
Keeps the time during a power cut, included.

USB 5 V
Power supply
Powered via USB, e.g. from the UA0085 USB hub.

BENEFITS

What the CR01 does for you

- **Schedules run precisely**
  All devices in the zone work to the same time, even after a power cut.
- **Energy report per zone**
  Monthly files are analysed in the app and exported by zone and period.
- **Evidence of operation and dimming**
  Documents operating hours and dimming, e.g. for funding or efficiency reports.

AT A GLANCE

The CR01 in brief

Variants	**CR01-ETC, CR01-RTC**
Wireless range	**approx. 30 m**
Memory card	**microSD, FAT32 (separate)**
Data volume	**approx. 28 MB/month**
Location	**indoors, within the zone**
Energy values	**calculated, not metered**

IN THE SYSTEM

How the CR01 fits in

Luminaires & sensors
networked in the zone's Bluetooth mesh
→
CR01
time and energy log
→
Keilton+autani app
report by zone and period
→
AU-Manager
analysis across all zones

Power in the report is calculated from the rated wattage entered in the app, not measured electrically.

A GOOD FIT IF ...

- ✓ Lighting zones with fixed schedules
- ✓ Energy reports needed for individual zones
- ✓ Indoor spaces, dongle placed within the zone

DIFFERENT REQUIREMENT?

Outdoor lighting by sun position	**CR02**
Analysis of all zones in one place	**AU-Manager**
Connecting a zone to EnergyCenter	**CR05**
Electrically metered consumption	**please ask**

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Manufacturer data (Keilton+autani), as of November 2026. Subject to technical changes.

Technical data

FUNCTION AND DATA		
Variants	**CR01-ETC (energy log + RTC), CR01-RTC (RTC only)**	With or without energy logging.
Logging interval	**Every 15 minutes (CR01-ETC)**	How often luminaire status is recorded.
Data volume	**Approx. 28 MB/month for ~100 nodes**	Storage needed for a typical zone.
Storage medium	**microSD/TF, FAT32, not included (≥ 700 MB for 2 years)**	Please provide the card separately.

ELECTRICAL AND WIRELESS		
Power supply	**USB 5 V**	Powered from a standard USB port.
Current draw	**max. 500 mA (USB)**	Maximum load on the USB port.
Backup battery	**CR2032 (included)**	Keeps the time during a power cut.
Wireless	**Bluetooth 5.0 (30 m), 2.4 GHz**	Radio range to the devices in the zone.

ENVIRONMENT		
Temperature range	**–30 °C to 55 °C**	Also suitable for unheated rooms.
Ingress protection	**IP20**	For dry indoor spaces.
Environment	**Indoor**	Not designed for outdoor use.
Standards	**CE, RoHS (EU Directive 2011/65/EU)**	CE-marked for the EU market, no restricted substances.

INSTALLATION

Plug in and add in the app

Insert card
Format a microSD card as FAT32 and insert it (ETC only).

Plug in
Connect the dongle to USB-A, e.g. on the UA0085 USB hub.

Add
Add it in the app, enter the rated wattage per luminaire.

Read out
Import the monthly files into the app via card reader.

ORDERING

Items and accessories

CR01-ETC.A0	Energy monitoring dongle | real-time clock
L-RDR	Lightning adapter (iPhone)
C-RDR	USB-C adapter
UA0085	USB hub for power supply

FREQUENTLY ASKED QUESTIONS

Does the CR01-ETC measure the luminaires' power consumption?
No. It logs the state of each luminaire every 15 minutes; the power is calculated from the rated power entered in the app and the light output in per cent. For accurate values, the rated power must be entered correctly (after top trim) during commissioning.

Which memory card do I need?
A microSD or TF card formatted with FAT32, not included. For two years of data the manufacturer recommends at least 700 MB; a zone with about 100 nodes produces around 28 MB per month.

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