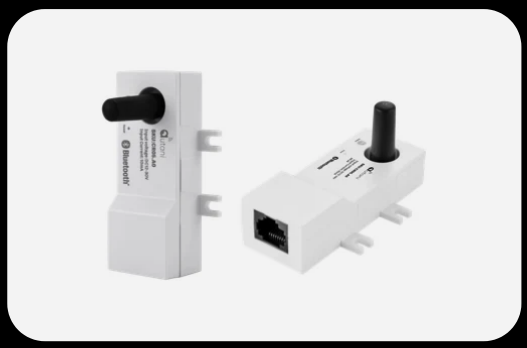
CR05 · Keilton+autani

Gateway between lighting zone and AU-Manager

The CR05 connects a lighting zone to the AU-Manager system controller. It collects the wireless messages from luminaires, sensors and switches and passes them on over a network cable. This makes the zone's occupancy and energy data visible centrally. It requires an AU-Manager and an RTR router.



100
Nodes per zone
Luminaires, sensors and switches per CR05.

30 m
Zone radius
Maximum distance of devices from the CR05.

4 hops
Wireless hops
A message is passed on no more than four times.

12–24 V
Power supply
Low-voltage DC, only 10 mA current draw.

BENEFITS

What the CR05 does for you

- **Zones in central view**
  Messages from the zone reach the AU-Manager and EnergyCenter via the CR05.
- **Grows with the building**
  Several CR05 and RTR can be combined – up to 1,000 devices per AU-Manager.
- **Simple cabling**
  One CAT5e cable with RJ45 plugs connects the CR05 to the RTR router.

AT A GLANCE

The CR05 in brief

Capacity	**up to 100 nodes**
Placement	**central in the zone**
Connection	**RJ45, CAT5e (separate)**
Antenna	**TX1 included, TX5 optional**
Location	**indoors**
Requires	**AU-Manager + RTR.A0**

IN THE SYSTEM

How the CR05 fits in

Sensors & luminaires devices in one zone → **Bluetooth mesh** networked wirelessly → **CR05** gateway connects the zone → **AU-Manager** analysis, schedules, remote access

The RTR router sits between CR05 and AU-Manager, so several zones come together in one controller.

A GOOD FIT IF …

- ✓ Buildings with several lighting zones
- ✓ Central monitoring or BMS integration planned
- ✓ AU-Manager and RTR router in the project

DIFFERENT REQUIREMENT?

System controller for all zones	**AU-Manager**
Scheduling for a single zone	**CR01**
Outdoor lighting by sun position	**CR02**
Large halls with many zones	**please ask**

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

Technical data

ZONE AND PLANNING		
Capacity	**Up to 100 nodes per zone**	Luminaires, sensors and switches in one zone.
Zone rules	**Place centrally, devices within approx. 30 m (100 ft) radius, max. 4 hops**	These determine the number of zones.
Range	**TX1: up to 300 m · TX5: up to 600 m (manufacturer table)**	Radio distance between two devices, not zone size.
Requirement	**AU-Manager and RTR.A0**	The CR05 does not work without these components.

ELECTRICAL AND CONNECTION		
Power supply	**12–24 V DC**	Low-voltage DC.
Connection	**RJ45, CAT5e cable (not included)**	Please plan the cable to the RTR router separately.
Wireless	**Bluetooth 5.0, 2.4 GHz**	Radio link 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.
Standards	**CE, RoHS (EU Directive 2011/65/EU)**	CE-marked for the EU market, no restricted substances.

INSTALLATION

Place centrally and cable

Plan the zone

Up to 100 nodes, approx. 30 m radius, max. 4 hops.

Position

Mount the CR05 centrally in the zone, fit the TX1 antenna.

Connect

Run a CAT5e cable with RJ45 to the RTR router.

Integrate

Commission the zone in the app, the CR05 passes it on.

ORDERING

Items and accessories

CR05.A0	Bluetooth interface / gateway
TX1	Antenna, 2.4 GHz
TX5	5 dBi antenna for greater range

FREQUENTLY ASKED QUESTIONS

How many luminaires and sensors does one CR05 connect?

One CR05 supports one Keilton+autani zone with up to 100 nodes.

How many CR05 do I need for my building?

One per zone. The manufacturer recommends placing the CR05 centrally, keeping the devices within a radius of approx. 30 m and limiting a zone to a maximum of 4 wireless hops. These rules and the 100-node limit determine the number of zones.

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