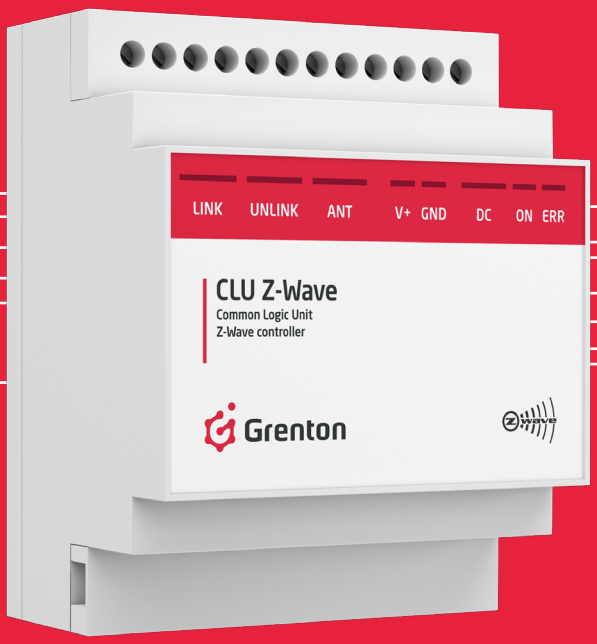
GRENTON CLU Z-WAVE

CLU-022-E-02

COMMON LOGIC UNIT
FOR DIN RAIL ASSEMBLY



The Common Logic Unit (CLU) module for DIN rail assembly, with Z-Wave wireless communication controller, executes the function of processing logic and storing the configuration. The CLU constitutes the basis for every system. The CLU module also ensures communication with IOM modules via a local busbar. It expands the communication possibilities of the GRENTON system with a wireless network.

- stores system configuration
- completes all calculations
- enables connection with the system
- Features a built-in switch and two RJ45 ports
- allows you to connect 48 modules (or 128 inputs/outputs) to the system busbar
- executes the functionality of cloud computing (distributed computing)
- allows you to connect the system to the internet
- stores created scripts/scenes
- enables you to create virtual CLU objects (timers, calendars, schedules, PID controllers, etc.)
- enables you to connect the system to any wireless device operating with the use of Z-Wave
- features a built-in busbar supply unit with 1000 mA capacity

CONFIGURATION PARAMETERS

CHARACTERISTICS

Name	Description
Uptime	Time of device operation since last reset (in seconds)
Log	Internal device log
State	Device state
Date	Current date
Time	Current time (hh:mm:dd)
Day	Number of the current day of the month
Month	Current number of the month
Year	Current number of the year
DayOfWeek	Current day of the week (0 = Sunday)
Hour	Current hour (no minutes or seconds)
Minute	Current number of minutes from last full hour
UnixTime	Current Unix time
FirmwareVersion	Software version

METHODS

Name	Description
AddToLog	Adds a new entry to the internal log
ClearLog	Deletes the contents of the internal device log
SetDateTime	Sets date and time
StartDiscovery	Initiates Z-Wave module discovery mode (if time = 0 then only to the first added node)
StopDiscovery	Stops Z-Wave module discovery mode

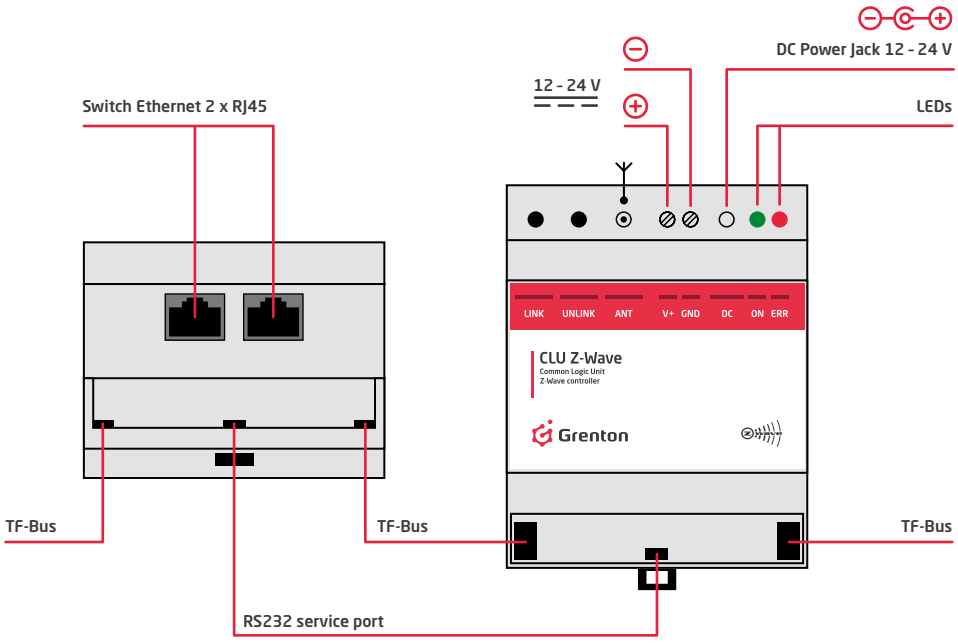
EVENTS

Name	Description
OnInit	Event occurring once during device initialization

TECHNICAL SPECIFICATIONS

DC supply	12 - 24 V
average current input	112 mA
max. current input	250 mA
Z-Wave frequency	868 MHz
weight	106 g
dimensions (H/W/D)	58/71/90 mm
max. connection wire section	≤ 2.5 mm^2
size [DIN]	4
operating temperature range	0 to +40°C
built-in busbar supply unit	1000 mA

WIRING DIAGRAM



LED - status indication:

- No supply
- Green diode blink every 500 ms – system OK
- Configuration error – system not configured or no communication with IOM module
- CLU in Z-Wave module discovery mode - green diode blink in 200 ms intervals
- CLU in Z-Wave module removal mode - red diode blink in 200 ms intervals
- Confirmation of adding Z-Wave module - green diode lights constantly for 1 second, then green and red diods blink three times in 200 ms intervals
- Confirmation of removing Z-Wave module - red and green diodes blink three times in 200 ms intevals, then red diode goes off and green diode blink in 500 ms interval