



INTERNET MODULE

# ecoNET Cloud

FOR ecoMAX CONTROLLERS

V1.0



## 1. Description

The internet module ecoNET Cloud (1) is designed for wireless cooperation with external radio transmission module (2), which is wired to the main controller (3). The device also communicates with the router (4) via a wireless WiFi connection. Also the internet module ecoNET Cloud is installed in a selected room, e.g. a living room, and is designed to maintain a preset room temperature by sending a radio signal to a module connected to the main controller (thermostatic function). The implemented encrypted, bi-directional radio ISM 868 communication allows the transmission of information from the main controller to the internet server via router.



Radio communication: 1 – ecoNET Cloud wireless room panel with internal temperature sensor, 2 – ISM\_xSMART radio module (auxiliary device), 3 - main controller (auxiliary device), 4 – router (auxiliary device),

The ecoNET Cloud can be used in a household or similar environments and in industrial environments.

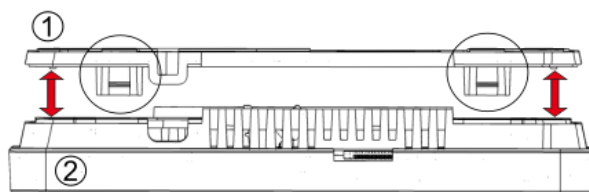
## 2. Parameters

Power supply	5..12V DC – from the external power supply
Degree of protection for the wireless room panel	IP 20;
Relative humidity	5...85% without steam condensation
Working temperature of the wireless room panel	5..35°C
Storage temperature of the wireless room panel	-10..60°C
Communication	Bi-directional ISM radio communication
The band of radio transmission	ISM 868 MHz, (the band 865...868 MHz) , two-way
Transmission power of the wireless room panel and radio module	20 mW (+13 dBm)
Type of ISM radio module	RFM69CW-868-S2 Hoperf
Type of ISM radio antenna	086AT43A0020E Jonson Tech
Wireless LAN	2.4 GHz~2.5 GHz, IEEE 802.11 b/g/n
Type of wireless LAN module	ESP32-WROVER-B, Espressif
Additional transmission port (wired)	1 x RS485
Display	LED indicator
Push button	2 x capacitive
Dimensions	144x97x20 mm
Weight wireless room panel; radio module	0,3 kg;
Software class	A
The module and wireless room panels installation method	On the wal lor desktop

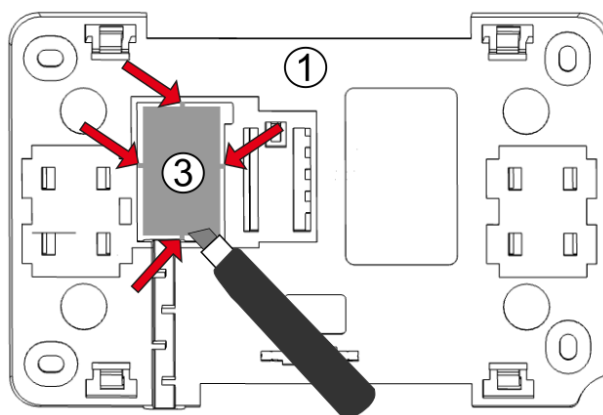
## 1.1 Installation description

The ecoNET Cloud installation should be done according to the instructions below.

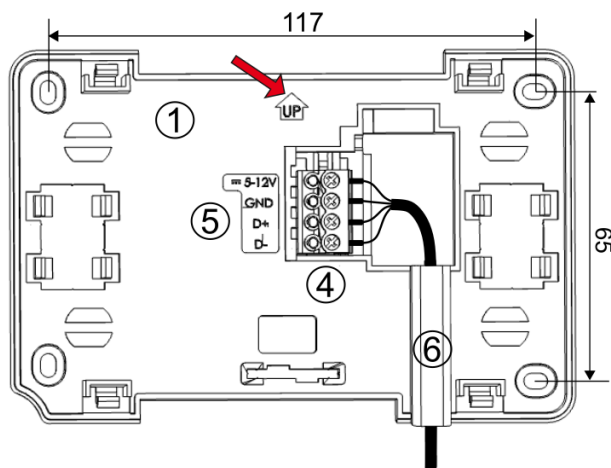
Disconnect the installation frame (1) from the back of room panel housing (2). The frame is attached to the panel housing with latches. Use a flat screwdriver to detach the frame.



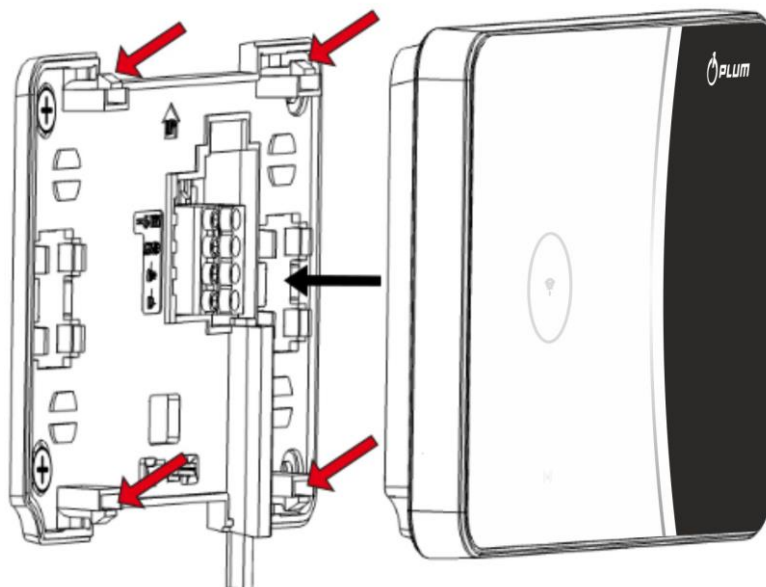
Using sharp tool cut out holes in four places of the cover (3) for the screw terminals.



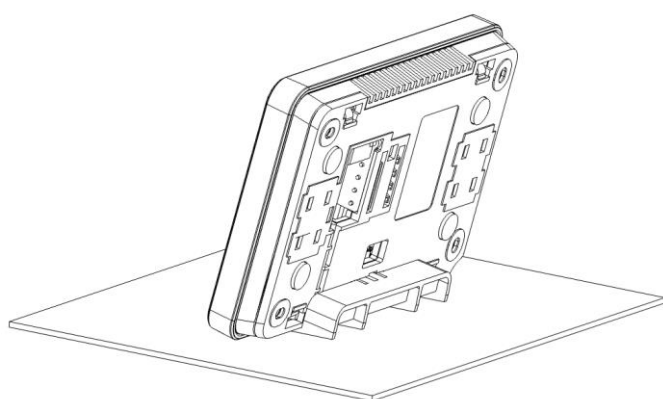
Connect the wires of a transmission cable, connecting room panel with the main controller, to the screw terminal (4) as described on the plate (5) and in section. The cable connecting panel with the controller can be recessed in the wall or can run over its surface – in such case the cable should be additionally placed in the cable channel (6) of the installation frame. The cable connecting panel with the controller cannot be conducted along with the cables of the building mains. The cable should not be routed near devices emitting strong electromagnetic field.



Drill holes in the wall and using screws (max. Ø 3 mm) fix the installation frame in the selected place on the wall, maintaining its proper position (UP). The spacing of holes can be determined by placing the frame on the wall. Next fix the panel to the installation frame using latches.



In order to place the device on a flat surface use a dedicated stand.



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