UXOne surface Hotel thermostat 24V

0 489 05 - 0 489 07 - 0 489 28 - 0 489 30 - 0 489 83
465006 - 465008 - 465083 - 465028 - 465030

Description

UXOne is a room controller embedded in a thermostat for hotels, it can manage thermoregulation both for heating and/or cooling, occupancy detection and basic scenarios.

From the display it's possible to see measured or setpoint temperature, control fan speed and switch to thermal protection mode. The device is available with or without Do not disturb/Make up room icons and with the option to add a third icon (custom version 465080, 465081, 465082, 465083, 0 489 80, 0 489 81, 0 489 82, 0 489 83).

UXOne can manage both fancoil through fancoil unit actuator LG-048910 and centralized thermoregulation systems through integration with BACnet protocol.

The occupancy detection is done through the embedded proximity sensor, additional door/window contacts and PIR sensors, or through the integration with door lock to provide virtual keycard function to manage scenarios with thermoregulation and light/curtains/shutters.

Proximity sensor also activates the display. LED brightness level and the time delay before returning to stand-by state are set during the configuration.

UXOne thermostat is compatible with wiring devices

With Netatmo ranges (Celiane, Arteor, Living Now, Living Light, Matix Go, Mallia Senses and Valena Next) to create and manage room scenarios.

Technical data

|	
Power supply:	110 – 230 Vac
Capacity of the power terminals:	1.5 mm^2
Capacity of the input and output terminals:	0.2 – 0.5 mm^2
Maximum consumption:	17 mA
Operating temperature:	0 – 40 °C
Storage temperature:	(-20) – (+70) °C
Unit of measure:	°C or °F
Protection index:	IP 20, IK 04

Wireless device in compliance with 802.11b/g/n standard, channel 1-11, frequency 2.4 – 2.4835 GHz, transmission power < 20 dBm.
WEP/WPA/WPA2 safety protocol. Protocol IPv4
Technology: 2.4 GHz Radiofrequency band (16 channels) - Byte rate: 250 KB/s. Self healing MESH network with high security level (AES128) according to IEEE 802.15.4 (LR-WPAN) standard.

The device is delivered without configuration, the heating and air-conditioning values will have to be set.
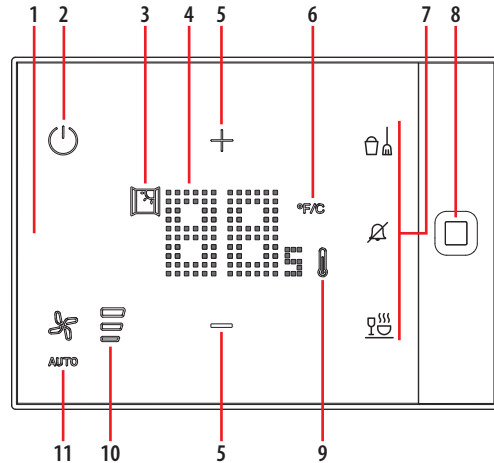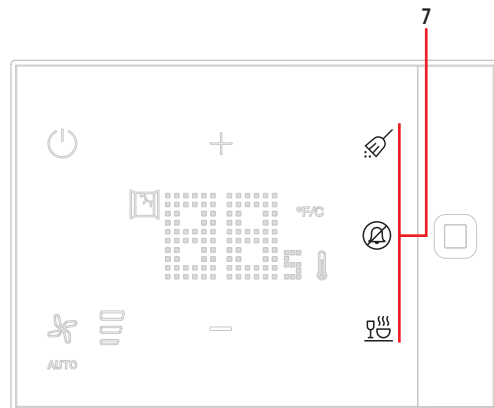
Dimensional data
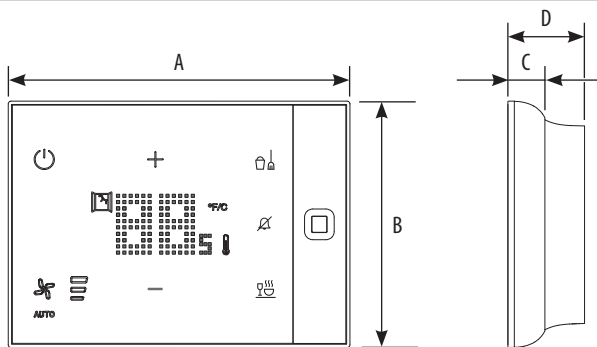
A	B	C	D
129 mm	93 mm	13.9 mm	28.9 mm

Front view

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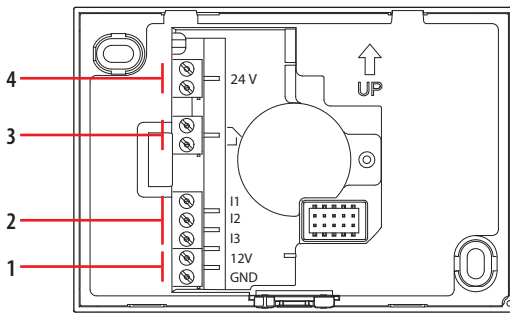

Legend

1. Touch screen display
2. MODE key:
   ON or antifreeze/thermal protection function
3. "Open window" indicator
4. Temperature display
5. Keys for temperature setting
6. Key for temperature measurement unit selection (Celsius/Fahrenheit)
7. Scenario control keys; the number and the scenarios recalled depend on the item
   Note: Items 0 489 05 - 0 489 07 - 465006 - 465008 do not have scenario buttons
8. Infrared proximity and presence detector
9. Indicator with red light ON: heating mode
   Indicator with blue light ON: cooling mode
10. Fan speed indicator: 3 levels plus automatic
11. Fan adjustment key

Warning: In case of a power failure, the device does not work and cannot be reached, any collection of personal data is interrupted.

Rear view

Legend

1. Output clamps 12V – 150mA
2. Contact input clamps
3. Contact output clamps
4. Power supply clamps

Configuration

For device configuration and installation and for any other information, refer to the documentation that can be downloaded from the website:

www.homesystems-legrandgroup.com

To download the App from Apple Store or Google Play search for "Hotel + Project".

App Hotel + Project

ANDROID: requires Android 5.0 or higher with access to Google Play
iOS: requires an iPhone or iPad with iOS 12,0 or later

Desktop

Win/Mac requirements:
- 500MB disk space
- Wi-Fi network card
- internet connection
- webcam (to configure greenpower devices)
- operating systems: from Microsoft Windows® 10; from macOS 10.15 Catalina.

⚠ During power shortage the device is not working and not reachable, any collection of personal data is stopped.

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Version 10.2.0
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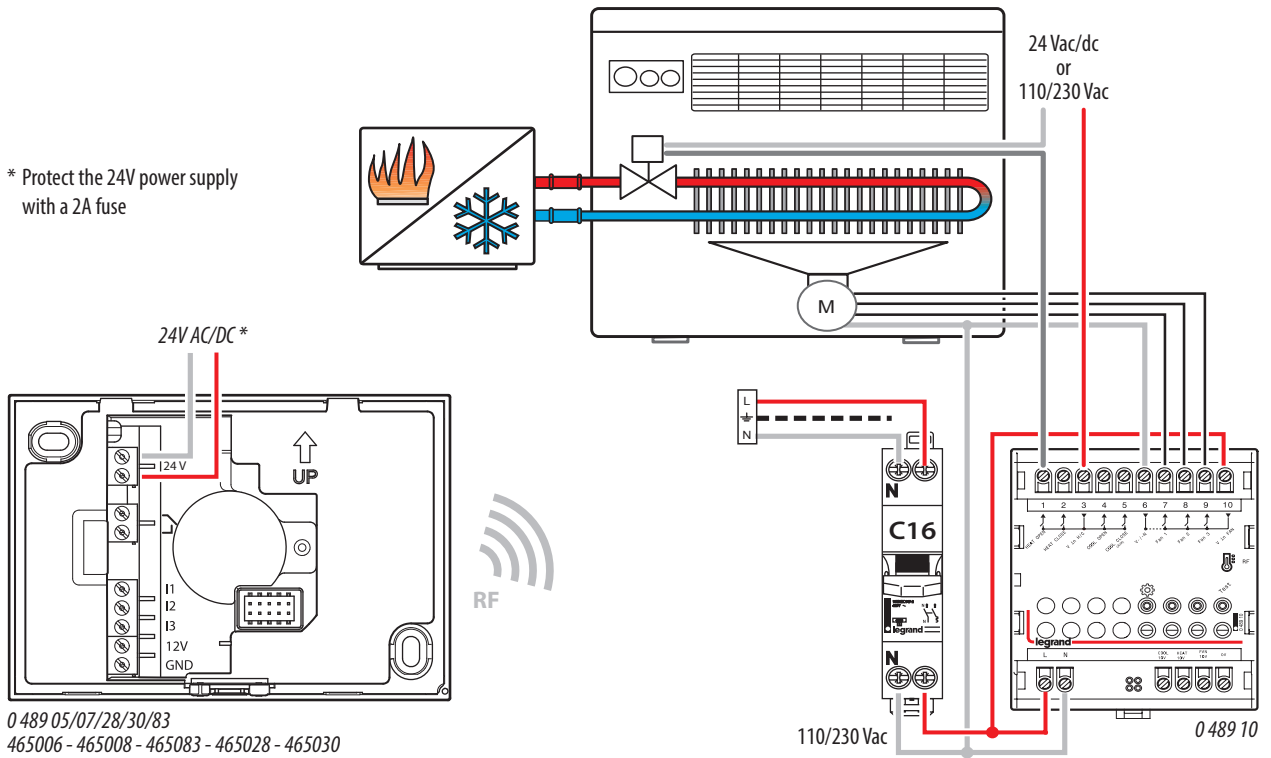THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
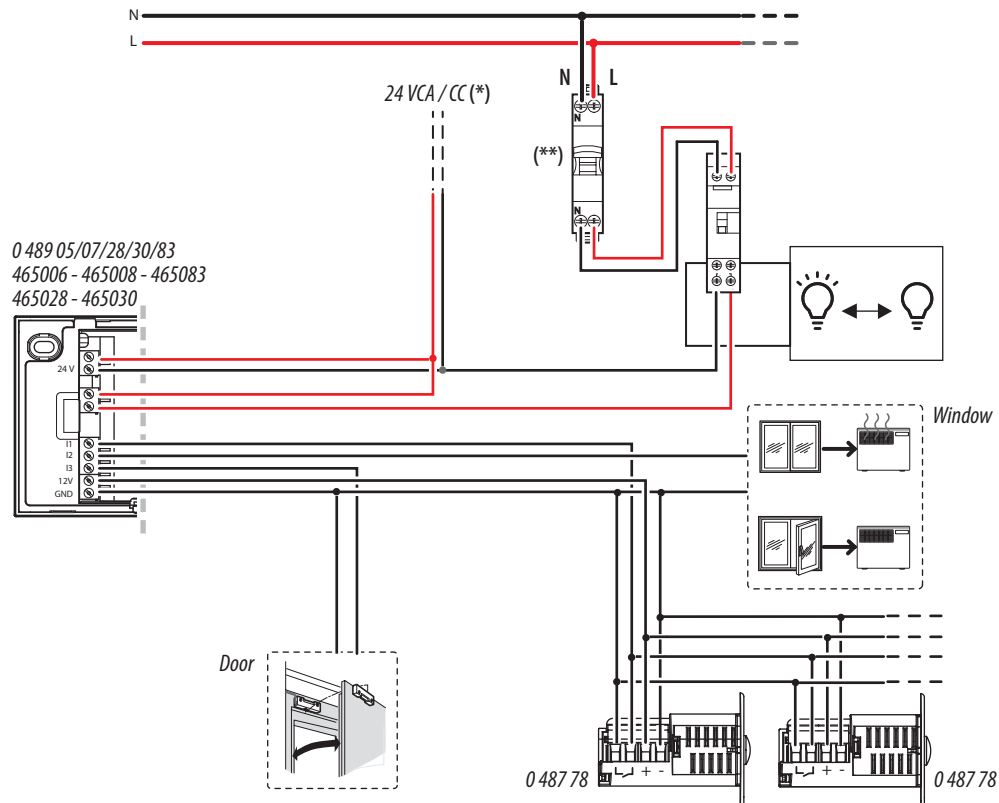
Wiring diagrams

Thermoregulation control through fancoil unit actuator
2-pipe system, ON/OFF valve, 3-speed ventilation.

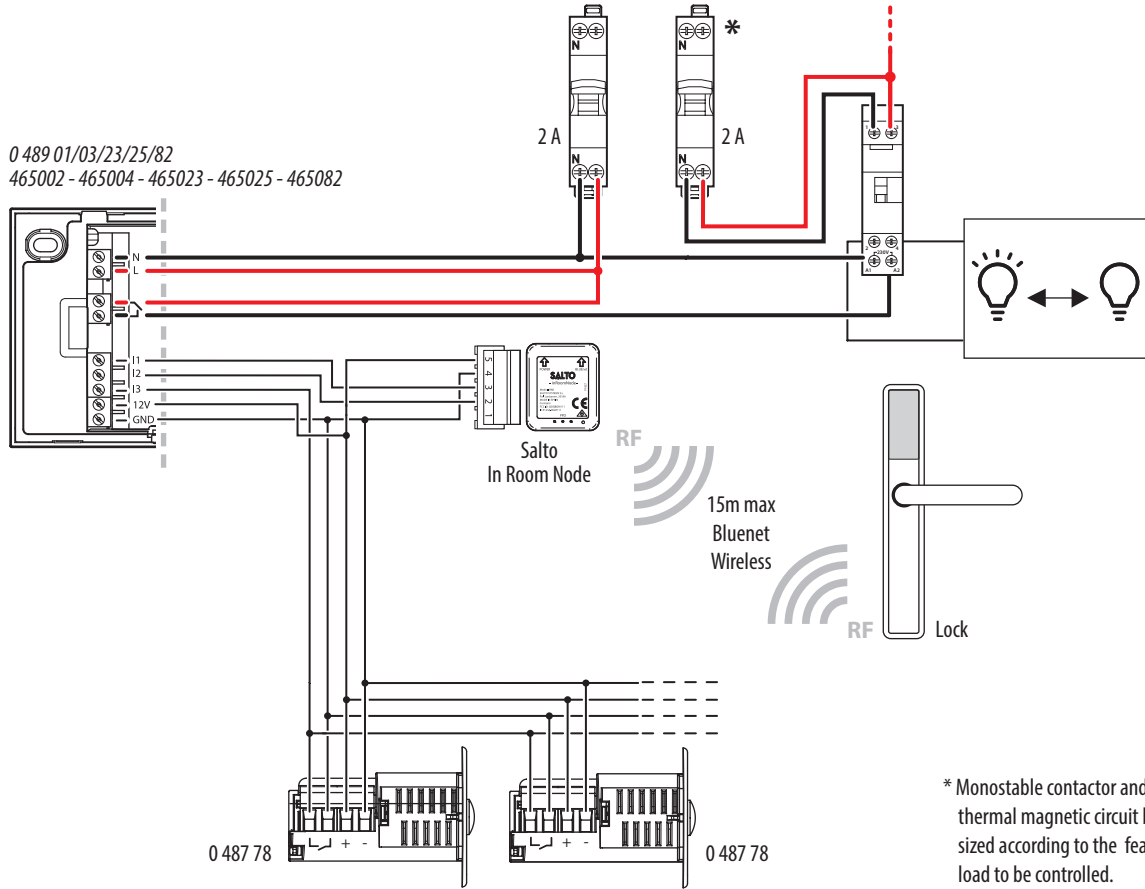* Protect the 24V power supply
with a 2A fuse

24V AC/DC *

24 Vac/dc
or
110/230 Vac

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110/230 Vac

0 489 10

Connection and management of Eco / Comfort mode and electric circuits through "Virtual key card" occupancy detection

24 VCA / CC (*)

0 489 05/07/28/30/83
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465028 - 465030

(**)

Window

Door

0 487 78   0 487 78

* Protect the 24V power supply with a 2A fuse.
** Monostable contactor and relevant thermal magnetic circuit breaker to be sized according to the features of the load to be controlled.

Virtual keycard function (integration with Salto doorlock)

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465002 - 465004 - 465023 - 465025 - 465082

2 A

2 A

*

N

N

N

N

N

L

I1

I2

I3

12V

GND

Salto
In Room Node

RF

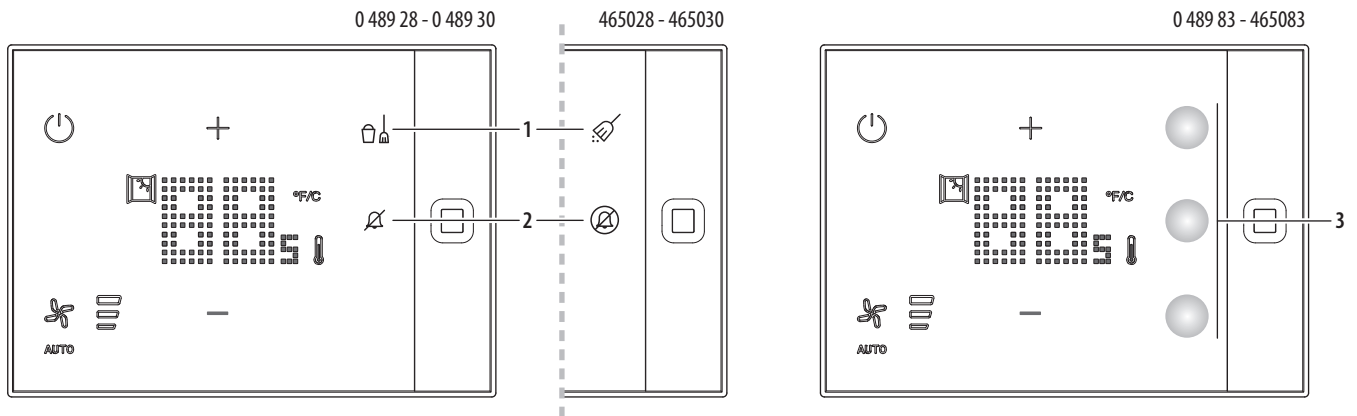15m max
Bluenet
Wireless

RF   Lock

0 487 78

0 487 78

+ -

+ -

* Monostable contactor and relevant
thermal magnetic circuit breaker to be
sized according to the features of the
load to be controlled.

Scenarios

1. It runs the "Make up the room" scenario.

2. It runs the "Do not disturb" scenario.

3. Run a customised scenario: it is possible to customise the pushbutton graphics when ordering by connecting to https://uxforhotels.legrand.com and configuring the scenario to be executed using the Hotel + Project software.software.

Characterization of the motion detector

The characterization of the PIR motion detector was carried out in a room with a temperature of 25° C. The product was installed at a height of 1.40 m (at position 0 on the image below). Each tile at image level is 60 x 60 cm and the test subject is 1.80 m tall.

The product achieves a motion detection of 5 m in front and 3 m with an angle of 45°, which represents an area of approximately 12.5 m^2.

⚠ Presence and proximity detection does not work for the first 30 seconds after the product is powered on.