



The LOYBT-RT1 Bluetooth Mesh radiator thermostat replaces conventional devices and enables energy efficient, demand based room temperature control.

By maintaining stable temperatures, it improves thermal comfort in applications such as offices, schools, hotels, and commercial buildings. The thermostat allows easy installation without the need for specialized equipment.

The LOYBT-RT1 has an internal temperature sensor and can work stand alone. The target temperature can be set via the Thyra Config app and the internal algorithm will determine the corresponding valve position. If no temperature is set the device will operate in standard freeze protection mode (8 °C).

With the LOYBT-RT1 fully integrated into LOYTEC's Bluetooth SIG Mesh ecosystem, it can operate together with sensors, luminaires, wall controls, and digital I/Os. This enables flexible and scalable room automation solutions.

A standard 30x1.5 mm valve connection ensures easy installation for most radiators. Optional high-quality adapters are available for other valve types.

Features

- Control radiators wirelessly by adding LOYBT-RT1 to the Bluetooth SIG Mesh network
- Bluetooth Mesh based valve actuator, supports low power feature
- Battery powered, expected battery lifetime > 8 years
- Battery level reporting
- OTA firmware update capable individually or via a network
- LEDs for optical feedback
- Simple installation without interfering with the heating system
- No special tools required
- Compact appliance with quiet operation
- Suitable for valves from all common manufacturers with additional adapters

Specifications

Type	LOYBT-RT1
Dimensions (mm)	57 x 77 x 55 (LxWxH), DIM008
Installation	Thread connection M 30x1.5 (high-quality adapters available)
Operating conditions	0 °C to +50 °C, 10-90 % RH, noncondensing; degree of protection: IP20
Storage conditions	-10 °C to +60 °C
Voltage supply	3.6 V, 9000 mAh battery (included, exchangeable)
Battery lifetime	> 8 years (if used properly in accordance to the manual)
Interface	Bluetooth SIG Mesh
Bluetooth & RF characteristics	Maximum output power: 0 dBm; Frequency range: 2402 MHz – 2480 MHz

Order number	Product description
LOYBT-RT1	Wireless Radiator Thermostat with battery-pack
LOYRT-BATT01	Spare Part Battery-Pack
LOYRT-ADAP01	Adapter Vaillant
LOYRT-ADAP02	Adapter Danfoss RAVL
LOYRT-ADAP03	Adapter Herz

Dimensions of the devices in mm and [inch]

DIM008 LOYBT-RT1

