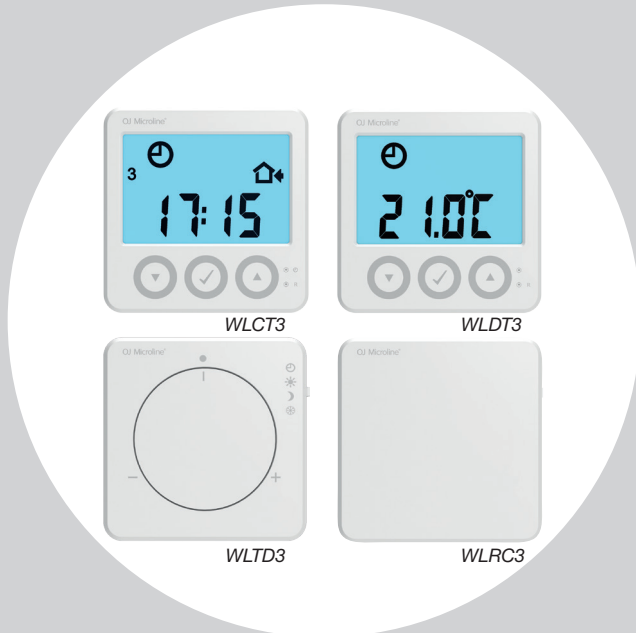


Intelligent Temperature Control



OJ Waterline™

ROOM SENSORS & CONTROLLERS

Maximum comfort with minimum energy consumption.

Room sensors and room controllers for the OJ Waterline™ system from OJ Electronics have been designed to ensure easy installation, high comfort and energy efficient operation with a high level of flexibility.

To ensure maximum installer flexibility, our heating sensors are available in both hard wired and wireless versions. The unique flexibility of the OJ design means that both hard wired and wireless sensors can be attached to the same system.

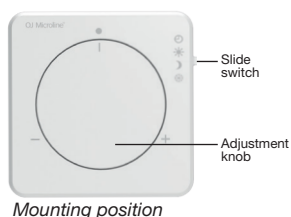
Key features

- 3,2" backlit display
- PI controlled room temperatures
- Safe 5 volt connection to all hard wired room sensors/controllers
- Energy saving comfort with adaptive function (early start) - ensuring comfort at the "right" time
- Frost protection

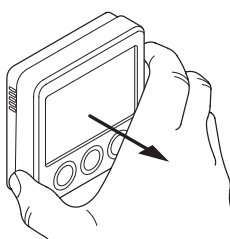


Intelligent Control
Maximum comfort with
low energy consumption

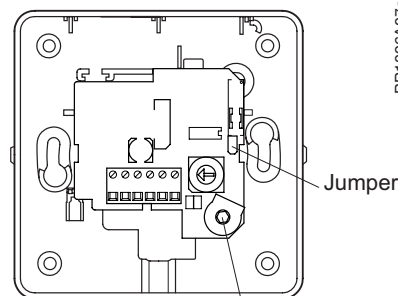
Save up to 55% energy



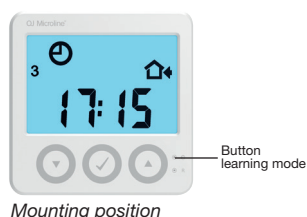
Mounting position



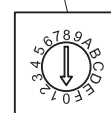
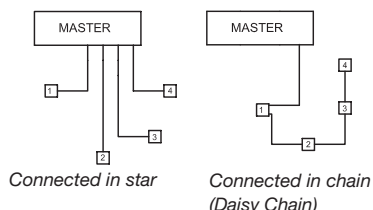
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Mounting position



Room Sensors

The Room sensors are used for temperature control in rooms, mounted on internal walls about 1.2 m above floor level away from influencing factors such as doors or windows introducing heating or cooling from drafts or sunlight.

The room temperature is based on the setpoint in the Master, or in a Room Controller, and can be adjusted locally depending on type.

Depending on type, it is possible to attach a floor limitation sensor for either maximum limitation as protection of wooden floors or minimum limitation for comfort reasons.

On WLTD and WLTM models the mode switch makes it possible to override automatic temperature changes, and set it to fixed comfort, fixed setback or to fixed OFF (frost protection).

Room Controllers

The WLCT3 room controllers are used to add 4-event programmable changes of time and temperatures. A room controller can be set up to send temperature set points to other room sensors in the system.

If the building needs to be divided into more areas, more room controllers can be added. A room controller overrides the settings in the master. Handling of radiator zones, hot water control and 2 stage control zones is also supported.

Product

OJ WATERLINE™	PRODUCT INFORMATION
WLTP3-x9	Non adjustable room sensor
WLTA3-x9	Room sensor with +/- 4°C adjust button
WLTM3-x9	Room sensor with +/- 4°C adjust button, mode switch and external sensor input
WLTD3-x9	Room sensor with +/- 4°C adjust button, mode switch and floor limit sensor
WLCT3-x9	Room Controller with 3.2" backlit display, built-in 4-event timer and area control
WLRC3-19	Receiver for wireless room sensors/controllers
WLDT3-x9	Room sensor with 3.2" backlit display, +/- 4°C adjust button, mode switch in display, floor limit sensor.

4-event time and temperature					
WLCT		Standard	Mode radiator	Mode 2-step	Mode Hot water
	Time	Temperature	Temperature	Temperature	Temperature
Day 1-5					
	06:00	21°C	21°C	21°C	50°C
	08:00	19°C	19°C	19°C	30°C
	16:00	22°C	22°C	22°C	50°C
	22:30	17°C	17°C	17°C	30°C
Day 6-7					
	08:00	22°C	22°C	22°C	50°C
	23:00	17°C	17°C	17°C	30°C
Other settings					
4-event sequence	-	4:52	4:52	4:52	4:52
High floor limit temperature	-	27°C	-	27°C	-
Low floor limit temperature	17°C	17°C	-	17°C	-
Special settings					
2-step time	-	-	-	60 min	-
2-step temperature difference	-	-	-	2°C	-

Technical data

Hard wired:

Connection type	2-wire, 5V, communication BUS
Cable type	Standard installation cable CAT5
Distance	100 meters between, 300 in total

Wireless:

Batteries	2 x AAA Alkaline 1,5 V
Battery lifetime	Typically 2 years
Communication frequency	868 MHz
Communication distance	Typical 30 m inside Minimum 100 m outside

All types:

Regulation type	PI (4°C P-Band) - PWM
Limit sensor type ETF	Max 50 meters
Enclosure	IP 21
Ambient temperature range	0 to 40°C