

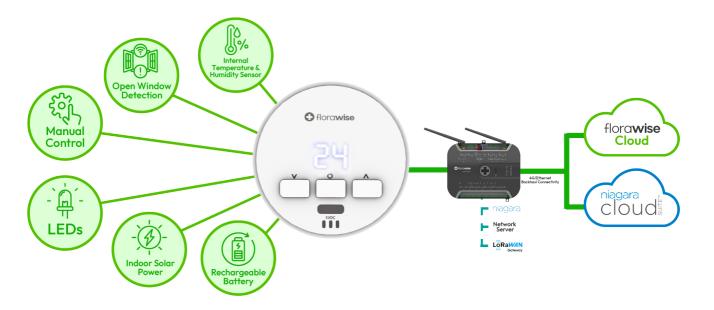
THERMOSTATIC VALVE
LoraWAN Heating
Solution That Charges Itself



DESCRIPTION

The Smart Radiator Valves allow you to manage your home's temperature when using collective heating, optimizing it for energy efficiency. By answering five simple questions, the system creates a heating schedule that heats only when necessary, adapting to each zone's specific needs. The system also includes features like Open Window Detection, which automatically turns off radiators when windows are open, and it integrates seamlessly with Niagara-based or Florawise Cloud monitoring systems. The Auto-Adapt feature ensures the heating is adjusted according to outdoor temperatures and the building's insulation, maintaining comfort and reducing energy waste.

In terms of connectivity, the Smart Radiator Valves can securely connect to the Modular MAX device via LoRaWAN, allowing for real-time data management and control. This wireless connection ensures efficient temperature adjustments in every zone while maintaining data security. The system integrates easily with algorithms uploaded to Niagara, enabling the heating system to adapt dynamically to changing weather conditions, further enhancing energy efficiency.



HOW DOES IT WORK



General Description:

- Internal Temperature & Humidity Sensor
- Open Window Detection
- Buttons for manual control
- LEDs for valve and device status indication
- Indoor Solar Power Harvesting
- Rechargeable Battery





Florawise Modular Thermostatic Valve Control solution is an intelligent application, perfect for users who are looking to remotely control, schedule, and manage their radiator heating systems. It offers bi-directional real-time communication, providing system status and confirmation that commands sent have been executed.

Bi-Directional Real-Time Communication:

 The solution ensures real-time communication, confirming that commands have been executed and providing up-to-date system status.

Support Simplified:

 Enables users to obtain detailed system status for malfunctions and errors, which can be provided to technicians and service providers to maximize the efficiency of service calls.

Florawise Thermostatic Valve Compatibility List		
Supported Brand	Models	
Oventrop	UniLDV, UniLDVL, Uni LV Vaillant	
Danfoss	FJVR, RAVL, RAV / RA-N, RA-A, RA-B, RA-C, T2000, T6000, T3000, RAS C2	
FAR	Far 1941, EcoDHome 01333-3012-00	
Other Supported Brands and Models		
- Caleffi - Gampper - Giacomini - Landis&gyr - OregOndal -		

Reich - Temset- Vaillant - EMMETI



FEATURES AND FUNCTIONS

1600mAh
Li- Ion rechargeable Battery 14850
·
LoRaWAN [®]
EU868
16dBm(868MHz)
-137dBm @300bps
OTAA/ABP Class A
·
Stepping Motor
M30 ×1.5 mm
RA, RAV, RAVL, Giacomini, M28 (Comap, Herz, TA)
Automatic Temperature Control, Heat plans, Child Lock, Freeze Protection, Open-window Detection
12-bit (default), 16-bit
10 ms/channel at 12-bit 140 ms/channel at 16-bit
<u>'</u>
Digital
Accuracy $\triangle RH = \pm 1.8 \% RH$ Resolution 0.01%
±0.2°C (-40°C to +125°C).
±0.01°C
•
LED Display with White Light
3 × Control Buttons
Internal Web Server Configuration via Web App (or LoRaWAN)
2 x 3.7V Li-IO AA Rechargeable Batteries (1600 mAh in Total)
700uA Max Current with 40°C Temperature Difference between ambient & radiator pipe connector
With Charger Case for 3-10 Years (30 min Report Interval + Control Once during 5-month Heating Season, Presence Sensor- off)
-20°C ~ +60°C
-40°C ~ +70°C (Without Batteries)
0% - 95% (Non-condensing)
IP30
Φ 52*90mm (Φ 2.05 * 3.54in)
Stainless+ABS, White
Latching on the Valve

 $^{^{\}star}$ It may vary depending on the radar-based presence sensor on the device and the data transmission frequency.



ORDERING INFORMATION

FMT	-TRV	
		Product Code; LoraWAN Communication Thermostatic Valve
		Controller
		Product Family, FMT = Florawise Modular Termostat

