

LoRaWAN®

Wall thermostat

dnt-LW-WTH

The LoRaWAN® wall thermostat from dnt is a flexibly mountable setpoint adjuster for radio-controlled heating controllers. An integrated calendar function allows the room temperature to be controlled automatically. The room temperature and relative humidity are transmitted wirelessly and shown on the display.



Up to 5 years of battery life due to low power design



Set temperature adjustable in 0.5°C steps



Flexible positioning due to screw and adhesive wall mount



Wide range of configuration options via LoRaWAN® downlink



Measurement of room temperature and relative humidity



Window-open detection can also be switched via LoRaWAN® downlink

TECHNICAL DATA

Abbreviation	dnt-LW-WTH
Supply voltage	2 x 1.5V LR6 / Mignon / AA battery
Quiescent current	< 13 µA
Typical power consumption	45 µA on average in default configuration
Battery lifetime	up to 5 years in default configuration

MECHANICAL PROPERTIES

Dimensions (W x H x D)	85 x 85 x 25 mm
Weight	140 g
Installation	Screwable and bondable
Protection class	IP20
Area of application	indoor
Operating temperature	0 °C to +50 °C
Scope of delivery	dnt wall thermostat, operating instructions, wall bracket, mounting material

RADIOTECHNOLOGY

Communication	LoRaWAN® EU868 (V1.0.3), internal antenna
Frequency band	L-band 865.0-868.0 MHz M-band 868.0-868.6 MHz O-band 869.4-869.65 MHz
Duty cycle	L-band < 1 % per h M-band < 1 % per h O-band < 10 % per h
Type. Radio transmitting power	+ 10 dBm
Recipient category	SRD category 2
LoRaWAN® range	>6km (free field, SF9, gateway: Kerlink PDTIOT-ISS04)

FUNCTIONS

Functions	Measurement of temperature and relative humidity, setting of temperature setpoint and operating mode, window-open detection, energy-saving mode
Data rate	ADR or adjustable, DR0 to DR5
Setpoint adjustment	Minimum and maximum value configurable