HWAT-T50

FOR ENERGY EFFICIENT CONTROL OF HWAT-L/M/R HEATING CABLES

PRODUCT OVERVIEW

The nVent RAYCHEM HWAT-T50 thermostat is designed for operation with the nVent RAYCHEM HWAT Hot Water Temperature Maintenance System.

It is compatible with:
HWAT-L
HWAT-M
HWAT-R

PRODUCT FEATURES

Temperature control using a line sensor

Manual ON/OFF by 2-pole power switch

Easy-to-read display with blue backlight

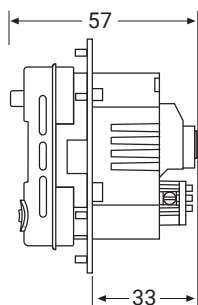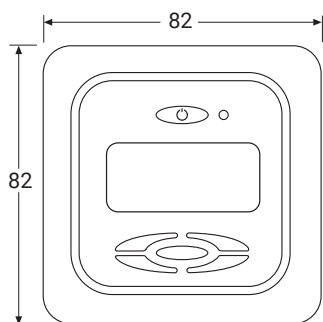Built-in timer function

5 operation modes

• Comfort

• Economical

• Manual

• Timer

• Off

Read-out of actual pipe sensor temperature

Monitor temperature of hot water pipe. In the event of a sensor failure, the heating system is switched off.

The HWAT system is controlled and monitored by a pipe (line) sensor.

TECHNICAL DATA

Supply voltage	180-253 VAC, 50/60 Hz
Relay output	Heating cable 230 VAC, max 16A
Temperature range line sensor	0°C to +70°C
Temperature setting range*	37-65°C *Default temperature 50°C*
Ambient temperature - operation	0°C to +40°C
Ambient temperature - transportation	−20°C to +55°C
Accuracy-line sensor	+/−1°C
Switching hysteresis	+/−2°C with line sensor
Clock function	3 pre-programmers: Eco, Comfort and Timer editable in blocks of 30 min; Daily programmable
Back-up for set values	Non-volatile memory
Back-up for time and date	7 days
Protection class	IP21
Terminals	Max. 2, 5 mm^2
Line sensor	NTC, 10K / 25°C with 3 m cable
Sensor cable diameter	4 mm
Sensor tip diameter	7 mm, length 20 mm Dimensions
Frame	H 82 x W 82 x D 57 mm Color Polar white RAL 9010
Approvals	RCM approved

*Please consider local hygiene standard guidelines

SYSTEM INFORMATION

RAYCHEM HWAT-T50 thermostats may be used with HWAT-L/M/R circuits up to 50 metres.

ORDERING INFORMATION

HWAT-T50-C (China)*	3000-4789
HWAT-T50-A (Australia)*	3000-4790
Mounting box for HWAT-T50-A	3000-4791
Adapter front plate for square box	1244-010134

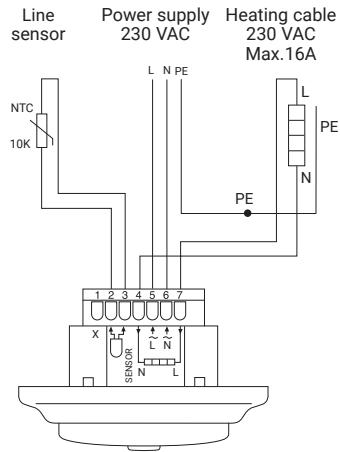*3 meter line sensor provided as a standard

COMPATIBILITY WITH WALL BOXES

HWAT-T50-C: will be compatible with 86 mm square box for in-wall installation together with the adapter (1244-010134). The 86 mm square mounting box not included.
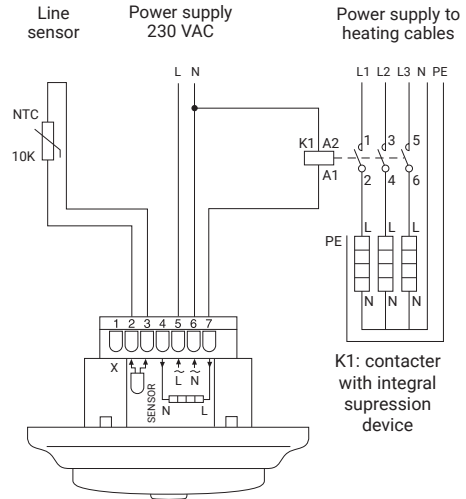
ACCESSORIES

N10K sensor, 3 m	1244-002952

Direct, connection – e.g. single heating circuit

Line sensor · Power supply 230 VAC · Heating cable 230 VAC Max.16A

Connection via contactor – e.g. 3 heating circuits

Line sensor · Power supply 230 VAC · Power supply to heating cables

K1: contacter with integral supression device

⚠ Do not use contactor without suppression device.

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