

DIN RAIL MOUNTABLE THERMOSTAT FOR HWAT HEATING CABLES



PRODUCT OVERVIEW

The nVent RAYCHEM HWAT-T55 thermostat is designed for operation with RAYCHEM Hot Water Maintenance Systems in small pipe networks or for branches.

It is compatible with self-regulating heating cable

HWAT-L

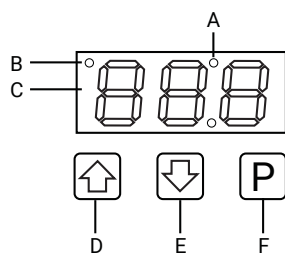
HWAT-M

HWAT-R

PRODUCT FEATURES

- Temperature control with (pipe) line sensor
- DIN-Rail mountable (35 mm)
- Easy-to-read digital display for temperature and alarm
- 3 operation modes –ON/ ECO/ OFF
- 3 preset temperatures: 55°C, 50°C, 45°C, for an easy selection by the user; pre-set temperatures can be modified
- Built-in timer function for ECO mode
- Read-out of actual pipe temperature
- Monitors temperature of hot water pipe. In the event of a sensor failure, the heating system is switched off.
- VDE approved

DISPLAY



A - LED-Display (Temperature and Alarm)

B - Heating system ON

C - ECO Mode ON/OFF

D - Increase value (change of pre-set temperature)

E - Reduce value (change of pre-set temperatures)

F - Program mode selection ON/ECO/OFF

TECHNICAL DATA

Supply voltage	230 VAC, +10%/–10%, 50 Hz
Relay output heating cable	230 VAC, max 16A
Power consumption	max. 5VA
Terminal size	2,5 mm ² , screwed
Temperature setting range*	40- 60°C; default value is 55°C
*consider local hygienic standard	
Storage temperature	–20°C to +55°C
Switching hysteresis	+/-2K
Ambient temperature-range operation	0°C to +40°C
Accuracy	+/- 1,5 K including temperature probe

PROGRAMMABLE PARAMETER

		Default Factory Settings
3 pre-set temperatures	40°- 60°C, editable	55°C, 50°C, 45°C
Timer	24 hour display; 1 min interval	00:00
Eco mode duration	3 -8 hours	6 (hours)
Eco mode start time	0:00 -23:00, interval per hour	23:00

ERROR MESSAGES BY MONITORING

Sensor	Sensor short circuit Sensor open loop
Hot water storage	Temperature exceeds 66°C; Low temperature alarm; measured temperature is 5 K lower than maintain temperature
Heating cable	Power output relay defective Heating cable not connected

HOUSING

Color	Black
Dimensions	52,5 mm x 87, 5mm x 58mm (H/W/D)
Material	ABS
IP rating	IP 20 (IP 30 in panel)
Installation	DIN rail mountable 35mm
Minimum installation temperature	5°C

TEMPERATURE SENSOR

Type	Line sensor type 202AT +/-1% NTC 2KOhm@25°C
Cable length	10 m (2–wire)
Probe dimensions	Diameter 5 mm, length 20 mm
Cable diameter	4 mm
Exposure temperature	0°C to +70°C
Accuracy	+/-1K

APPROVALS

CE; VDE

RoHS & REACH

SYSTEM INFORMATION

RAYCHEM HWAT-T55 thermostat is designed for use with HWAT-L, -M or -R. Maximum circuit length is limited to 50 m.

ORDERING INFORMATION

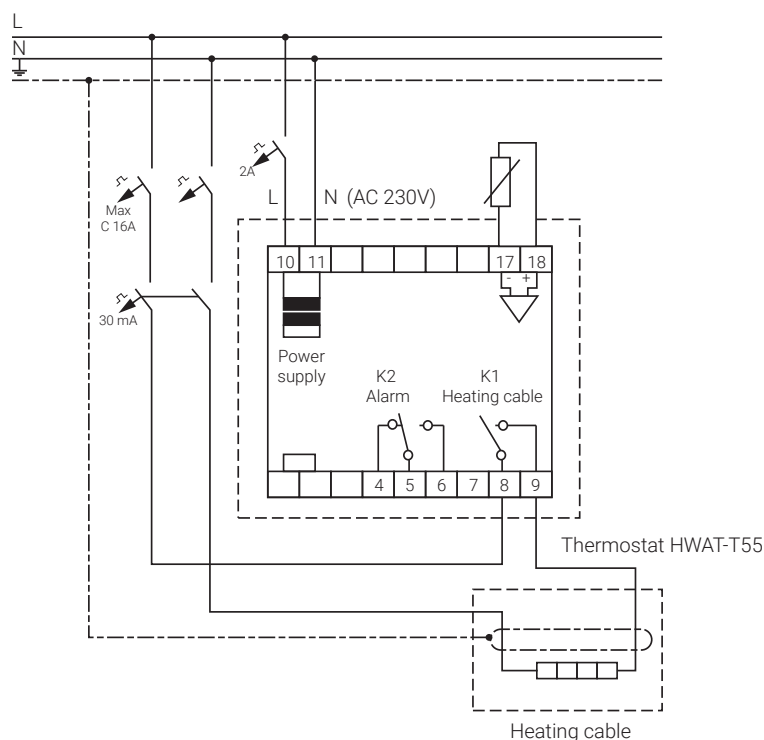
Product: HWAT-T55

PCN: 1244-015722

ACCESSORIES

Line sensor type 202AT +/-1% NTC 2KOhm@25°C 10 m, PCN 1244-015847

CONNECTION SCHEME FOR THERMOSTAT HWAT-T55



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