

Raychem SBS-01-HM-ECO-10

CONTROL PANEL FOR HOT WATER TEMPERATURE MAINTENANCE SYSTEMS



DESCRIPTION

The SBS-01-HM-ECO-10 control panel for hot water temperature maintenance systems provides a totally integrated solution for the control of Raychem self-regulating heating cables for single pipe hot water temperature maintenance applications. The control panel comprises the energy efficient HWAT-ECO control system with integrated standard, economy, and "Tap time" set-back timer functions. The control panel also includes monitoring of the boiler output temperature and low temperature alarm in the event of low boiler output temperature. A BMS connection is also provided to allow controller override switching between maintain mode, setback mode, or legionella prevention mode* (*when using HWAT-R heating cable only).

The SBS-01-HM-ECO-10 panels switches a single maximum circuit of HWAT-M or HWAT-R self regulating heater cable. The panel also includes electrical circuit protection devices (C-type circuit breakers and RCD protection) for safety and peace of mind. The panels need only be connected to the 230Vac (3 phase) supply

ADVANTAGES

- Integrated electrical safety, control, and heater connection within a single unit from the heat tracing manufacturer.
- Alarm function for system monitoring.
- BMS input available.
- Boiler monitoring sensor for low temperature alarm.

TECHNICAL DATA

Control	HWAT-ECO Smart control device, pre-installed and electrically connected.
Supply voltage	230Vac 50/60Hz.
Set temp.	Customer specific at first set-up. (Quick and easy menu driven set-up).
Sensor	Boiler output temperature sensor (Line sensor.) PTC KTY 81-120 or PT100.
Panel approval	CE (Approved to IEC 60204-1 and IEC60439-1).
Main switch	25A
RCD	30mA.
Line Circuit breakers	20A (Type C) 30mA RCD per heater circuit
Approvals	CE marked.

RELATED PRODUCTS

The SBS-01-HM-ECO-10 control panel is compatible with the Raychem hot water temperature maintenance cables:

HWAT-L
HWAT-M
HWAT-R)

TECHNICAL DATA

The standard switch cabinet comprises a steel plate housing and is fully assembled and inspected with turnkey-status wiring.

Paintwork	Structural paint, RAL 7035, light grey
Protection class	IP54
Installation location	Interior
Ambient temperatures	+5°C to +35°C
Cable apertures	Metal panel in base of housing with metric breakaway apertures
Version	acc. to VDE 0660, Part 500 and VBG 4
Mains supply	230Vac, 50Hz, L/N/PE

Cabinet type

SBS-01-HM-ECO-10

Number of heating circuits			1
Housing version			Wall-mounted
Dimensions	Width	mm	380
	Height	mm	600
	Depth	mm	210
Weight (ready for dispatch)	approx.	kg	21
Connected rating			kW 4,5
Electrical protection provided by customer	max.	A	1 x 25A NH-00

Switch cabinet equipment

Master switch, 3-pole 25A	Unit	1
Power protection switch, S 2A	Unit	1
Transformer 230/24 VAC	Unit	1
Combination of RCD/CB, C 20A, 30 mA, 4-pole, with auxiliary switch	Unit	1*
Contactor 3 x 35A	Unit	
Auxiliary relay	Unit	1
“Operating” signal lamp	Unit	1
“Fault” signal lamp	Unit	1
HWAT-ECO temperature controller	Unit	1
Programmable logic module	Unit	–

* 2-pole

ORDER REFERENCE

Product name	Order reference	Description
SBS-01-HM-ECO-10	390056-000	Single circuit control panel for HWAT system.

INSTALLATION INSTRUCTION

Complete panel wiring information and schematics are provided with the product. All electrical installations must be carried out by an approved electrician in compliance with local electrical requirements and norms.



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