

Clock thermostat for flush mounting INSTAT 8

EBERLE

by Schneider Electric



INSTAT 8

Features:

- Three different heating systems inside the same device (room control, floor control and room control with floor temperature limitation)
- 2, 4, 6 selectable times for each day
- 3 adjustable temperatures (comfort, standard, night)
- Extra daily programme (for special cases, e.g. holidays)
- 5 pre-set programmes
- Manual operation that enables:
 - changing the temperature until the next programme event
 - permanently changing the temperature
- Going out/returning home function for a quick temperature setback
- On/off function
- Access protection
- Holiday function
- Party function
- Runtime counter (1 through 9999 hours)
- Pump/valve protection
- Room or set point temperature display, selectable
- Temperature re-calibration (to meet individual needs)
- Change over between heating and cooling (e.g. for floor cooling systems)
- Remote sensor optional
- LCD display with clear, simultaneous indication of room temperature, time, day, operation mode, time zone, temperature zone
- Menu-driven operation through 4 keys
- Size for conduit box Ø 60mm

Applications:

The electronic room temperature controller INSTAT8 can be used to control the room temperature via:

- Actuators for floor and convector heating systems
- Oil and gasfired hot water heating systems
- Circulating pumps
- Heat pumps
- Electric space heaters
- Electric floor heating systems
- Room temperature control with floor temp. limitation

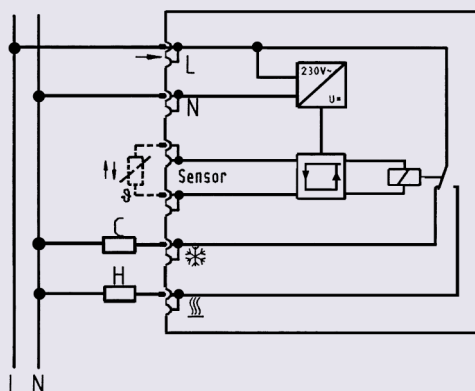
Function elements:

	Weekly programme		Morning
	Daily programme		Early morning
	Manual operation		Noon
	Party		Afternoon
	Holiday		Evening
	Time setting		Night
	Switching time setting		1 Comfort temperature
	Temperature setting		2 Standard temperature
			3 Setback temperature

Technical data

Ref.-No	0525 35146061
Set point temperature	5...40°C, in steps of 0.5K
Display range actual temperature	0...60°C, in steps of 0.1K
Power supply	230 V AC (195 ... 253 V) 50/60 Hz
Control algorithm	Fuzzy(similar to PID) or ON/OFF selectable
PWM cycle duration	~10 min (sum of on and off time of Pulse-Width-Modulation PWM)
Relay for load	1 potential-driven c/o relay
Switching current	8 A $\cos \varphi = 1$, 2 A $\cos \varphi = 0.6$
Display	LCD-display
Display size	29.7 x 21.5 mm (w x h)
Digit size	8 mm for temperature, 6.5 mm for time
Clock Display mode	24-hour clock, 1-minute steps
Minimum switching time	10 minutes
Power reserve	~4 hours
Holiday function	5...40°C, in steps of 0.5°; settable from 1 to 199 days
Runtime counter	0 to 9999 hours
Temperature sensor	NTC (built-in)
Remote sensor	Type F 193720, length 4m or F 190021 for wall mounting both extendable up to 10 m
Housing protection rating	IP40
Device protection class	II

Wiring diagram



Dimensions

