

## EB-Therm 800 <sup>®</sup>



EB-Therm 800 is a unique DIN-mounted thermostat that allows you to choose between four different operating modes. As a professional fitter, you only need to have one thermostat model in stock to cover most kinds of control needs.

It is suitable for most applications - from underfloor heating in a home to industrial processes with high temperatures. We have produced this thermostat with the full focus on you as a user, which you will notice in the simplicity of everything from installation to menu navigation and setting.

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### Heating

This operating mode is used in homes, offices, warehouses and similar. With this operating mode you can control heating in the temperature range +5 to +45 °C. There are four different Energy Saver programmes to choose between.

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### Cooling

This operating mode is used in homes, offices, warehouses and similar, as a room thermostat that controls air conditioning or other cooling in the temperature range +5 to +45 °C. There are four different Energy Saver programmes to choose between.

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### Industry

This operating mode is used for temperature control of industrial processes. Controls heating in the range -15 to +75°C and +0 to +170 °C, or limits the range to -10 and +15°C to act as frost protection. It is also possible to adjust the temperature hysteresis effect and set over and under temperature alarms. Choose between three different programmes in this operating mode.

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### Max/Min

The Max/Min operating mode is mainly used to keep roof and ground areas free of snow and ice. The temperature range can be set between -20°C and +10°C. For the best effect and the most energy saving, combined temperature and humidity control should be used, combining Max/Min with a Roof Sensor (E8935075) or Ground Sensor (E8580101).

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### Easy to use

EB-Therm 800 has a clear display that is always illuminated. In display mode you see a summary of the most important settings and the status of functions. You can easily navigate to all settings via the main menu. With the aid of buttons, you can also reach a number of short cuts to various functions direct from the display mode. For example, you can see the thermostat's connection time with the press of a single button - an excellent way of keeping track of energy consumption. The thermostat can also be linked to a remote control unit, which means that you can control certain functions from your mobile phone, for example, when you are not on site.

## TECHNICAL INFORMATION:

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The pack includes: 3 m sensor cable and rapid guide.

Connection voltage	230 VAC $\pm 10\%$ ~ 50Hz
Circuit-breaking capacity	3680 W/16 A/230 VAC
Power consumption	2.5 W
Menu languages	Swedish, English, Norwegian, Finnish, Russian, German
Temperature range	-15°C to +170°C divided into two ranges
Low temperature range	-15°C to +75°C – Sensor type NTC
High temperature range	+0°C to +170°C – Sensor type PTC
Connection cable	max 2.5 mm <sup>2</sup>
Load	Cos $\varphi$ = 1
Connection difference	Adjustable $\pm 0.3$ to 10.3°C
Enclosure class	IP20
Back-up	50 h
Max length sensor cable	50 m, 2x1.5 mm <sup>2</sup>
Display dimensions	24x19 mm
Thermostat dimensions	90x35x70 mm
Fitting	Standard DIN rail EN 50022-35
Alarm relay	2 A/120 VAC Normally closed
Ambient temperature	-20 °C to +45 °C
EMC-certified	Copes with surge voltage of 2500 VAC
Approval	CE, S
Directive	RoHS, WEEE
Test value for NTC sensor	Test value for PTC sensor
10 °C 18.0 k $\Omega$	70 °C 1392 $\Omega$
15 °C 14.7 k $\Omega$	90 °C 1585 $\Omega$
20 °C 12.1 k $\Omega$	110 °C 1792 $\Omega$
25 °C 10.0 k $\Omega$	130 °C 2012 $\Omega$
30 °C 8.3 k $\Omega$	150 °C 2247 $\Omega$

## ARTICLETABLE:

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Item number	Name	Dimensions
8581610	EB-Therm 800	90x35x70 mm

## GARANTI:

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Ebeco AB provides a 5-year product warranty covering material faults for our control units.  
[All terms and conditions is found here.](#)

#### ACCESSORY:

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### Roof Sensor

Moisture sensor for use in roof systems. Used as an accessory for EB-Therm 800 in max-/min positions. Including 24 V AC/DC transformer with attachment strap.



Item number	Name	Length
8935075	Roof sensor EB800	15 m connection cable

### Ground sensor

Moisture and temperature probe for melting snow on the ground. Used as an accessory for EB-Therm 800 in max-/min positions.



Item number	Name	Length
8580101	Ground sensor EB800	15 m connection cable

### Enclosed sensor

You will need to use this item with your EB-Therm 800 if you wish to use it as a room thermostat or Max/Min thermostat for roof systems.



Item number	Name	Dimensions
8581622	Enclosed sensor IP20/ IP54	82x88x25 mm

### High-temperature 3 m sensor cable

You will need to use this item with your EB-Therm 800 if you wish to control temperatures above +75°C.



Item number	Name	Length
8581673	High temperature sensor cable	3.0 m

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## Sensor cable

Sensor cable for thermostat. Included in thermostat pack.

Item number	Name	Length
8581671	Sensor cable	3.0 m
8581684	Sensor cable	6.0 m



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## Encapsulation, 3 modules

Encapsulation for EB-Therm 800. IP55.

Item number	Name
6600001	Enclosure 3 modules

