

Dew-Proof Thermostat- DATASHEET

Model: B64-DP

For floor cooling/heating radiant AC systems
with dew-proof control of the floor



Indoor Air Quality
Beltéri Levegőminőség Kft.
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Features

- ❶ Special design for cooling/heating AC systems of floor hydronic radiant with dew-proof control of the floor
- ❶ Provides a more comfortable living environment with saving energy.
- ❶ Attractive turn-cover design, most frequently used keys are located next to the LCD for quick and easy access to operation. setup keys are located on the interior to eliminate accident setting changes.
- ❶ Large LCD with enough messages for quick and easy readability and operation. Like, real-time detected room temperature, humidity, and pre-set room temperature and humidity, calculated dew point temperature, working state of water valve, etc.
- ❶ Celsius degree or Fahrenheit degree display selectable.
- ❶ Smart thermostat & hygrosat with room temperature control and floor dew-proof control in cooling.
- ❶ Room thermostat with maximum limit of temperature for floor in heating
- ❶ Used in the hydronic radiant cooling system with auto calculating the dew point temperature by real-time detecting room temperature and humidity.
- ❶ Floor temperature will also be detected by the external temperature sensor. Room temperature & humidity and floor temperature can be pre-set by users.
- ❶ Used in the hydronic radiant heating system, it will be a room thermostat with humidity control and floor over heating protection.
- ❶ 2 or 3 on/off outputs to control the water valve/humidifier/dehumidifier separately.
- ❶ Two control modes selectable by users in cooling to control the water valve. One mode is controlled by either room temperature or humidity. The another mode is controlled by either floor temperature or room humidity.
- ❶ Both temperature differential and humidity differential can be pre-set in order to maintain an optimal control of your hydronic radiant AC systems.
- ❶ Special design of pressure signal input to control the water valve.
- ❶ Humidify or dehumidify mode selectable
- ❶ All pre-set settings can be remembered even energized again after a power failure.
- ❶ Infrared remote control optional.
- ❶ Backlight of LCD optional.
- ❶ RS485 communication interface optional.

Buttons and LCD



- cooling/heating mode
- humidify/dehumidify change
- humidify/ dehumidify change mode
- control mode switch

Specifications

Power Supply	24VAC 50Hz/60Hz
Electrical rating	1 amp rated switch current/per terminal
Sensor	Temperature: NTC sensor ; Humidity: Capacitance sensor
Temperature measuring range	0~90°C (32°F~194°F)
Temperature setting range	5~45°C (41°F~113°F)
Temperature accuracy	± 0.5 °C (± 1°F)
Humidity measuring range	5~95%RH
Humidity setting range	5~95%RH
Humidity accuracy	± 3%RH
Display	LCD
Net weight	300g
Dimensions	90mm x 110mm x 25mm
Mounting standard	Mounting on the wall, 2"x 4" or 65mm x 65mm box
Housing	PC/ABS plastic fireproof material

Models

MODEL	DESCRIPTION
B64-DP11-K	Dew-proof thermostat for hydronic radiant floor cooling/heating AC system. 2xon/off outputs to a water valve, a humidity device (humidifier or dehumidifier). 1Xoutside on/off or analog signal input. 24VAC power supply.
B64-DP11-C	Dew-proof thermostat for hydronic radiant floor cooling/heating AC system. 2xon/off outputs to a water valve, a humidity device (humidifier or dehumidifier). RS485 interface. 24VAC power supply.
B64-DP12-K	Dew-proof thermostat for hydronic radiant floor cooling/heating AC system. 3xon/off outputs to a water valve, a humidifier and a dehumidifier. 1XOutside on/off or analog signal input. 24VAC power supply.
B64-DP12-C	Dew-proof thermostat for hydronic radiant floor cooling/heating AC system. 3xon/off outputs to a water valve, a humidifier and a dehumidifier. RS485 interface. 24VAC power supply.
	Options
Remote Control- R	Infrared Remote Control with handle remote controller
LCD Backlight- EL	Blue backlight of LCD

Mounting and Wiring Diagram

