BH-510 & BH-610 OUTDOOR DIGITAL CONTROLLERS WITH FAST-ADAPTIVE-TUNING

The BH-510 and BH-610 outdoor temperature controllers use Fast-Adaptive-Tuning (FAT) technology, optimizing the controller to adjust the logic between the setpoint temperature and actual temperature. They can be used in applications where accuracy is required, replacing PID controllers.

NEW!

Features & Benefits

▶ Outdoor and wet-area use

▶ 4-key touch pad interface

▶ Fast-adaptive-tuning adjusts control parameters to your process

▶ 5 programming languages

▶ Auto-detect temperature sensor

▶ Programmable in both °F and °C

▶ Remote control programming option

▶ Wall mount (optional)

BH-510

NEW!

Specifications

Input Voltage: 90–260 VAC, 50–60 HZ

Maximum Amp Load:
– BH-510: 10 amps (16 amps with external fuse)
– BH-610: 40 amps

Temperature Control Range:
– Type-K Thermocouple: -328°F to 2462°F (-200°C to 1350°C)
  PT100-RTD: -184°F to 1562°F (-120°C to 850°C)

Temperature Display Units: °C or °F

Sensor Input: Type-K, Type-J, Type-E, Type-N thermocouples; PT100 or PT1000 RTD

Accuracy: ± 3.6°F (2°C) up to 1292°F (700°C) <0.5% scale

Programming Languages: English, German, French, Spanish, and Japanese

Display: LCD graphic display with 3-color LEDs for signaling of operating conditions

Sensor Input Options: Type-K thermocouple, PT100-RTD or PT1000-RTD auto-detected, other thermocouple types programmable

Operation: Fast-adaptive-tuning (FAT)

Safety Features:
– All inputs potential-free with sensor break detection
– Hybrid Relay with safety-shutdown-relay (breaks heating power circuit on failure)
– Unfused connection requires external protection from overload or over-current

Environmental Exposure:
– Operating range: -4°F to 122°F (-20°C to 50°C)
– Storage range: -4°F to 185°F (-20°C to 85°C)
– Relative humidity: < 90% non-condensing temperatures

Enclosure Dimensions:
– BH-510: 5.94 in W x 4.92 in H x 2.36 in D (151 mm x 125 mm W x 60 mm)
– BH-610: 5.94 in W x 6.89 in H x 3.55 in D (151 mm x 175 mm W x 90 mm)

IP Rating: IP65 (when cover is closed)

CE

BH-610
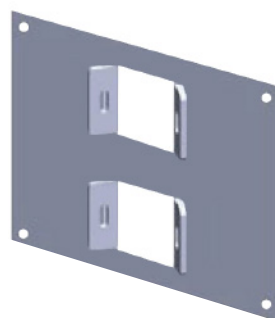
BH-510 & BH-610 OUTDOOR DIGITAL CONTROLLERS WITH FAST-ADAPTIVE-TUNING

Ordering Information

Part No.	Description
WRW510SR-BH01	BH-510 wall mounted outdoor temperature controller, 16A max
WRW610SR-BH01	BH-610 wall mounted outdoor temperature controller, 40A max

Accessories

Part No.	Description
WRZMW110-BH01	Aluminum bracket for wall mounting
WRZF310N-BH01	IR remote control programming unit
THRN10-GA	RTD 100 Ohm 10 ft (3.0 m) long, with barrel tip and bare wire leads
THRN25-GA	RTD 100 Ohm 25 ft (7.6 m) long, with barrel tip and bare wire leads
TCKN10-GA	Type-K thermocouple 10 ft (3.0 m) long, with barrel tip and bare wire leads
TCKN25-GA	Type-K thermocouple 25 ft (7.6 m) long, with barrel tip and bare wire leads
TCJN10-GA	Type-J thermocouple 10 ft (3.0 m) long, with barrel tip and bare wire leads
TCJN25-GA	Type-J thermocouple 25 ft (7.6 m) long, with barrel tip and bare wire leads

WRZMW110-BH01
Aluminum Bracket

REMOTE CONTROL PROGRAMMING UNIT FOR BH-330, BH-510, & BH-610

Features & Benefits

► Necessary to program in-line temperature controller
► Control range of 20 in (500 mm) up to 276 in (7000 mm)
► Displays PV (actual) and SV (set) temperatures
► Backlit LCD display
► Programs multiple controllers with individual setpoints
► Compatible with BH330, BH-510, and BH-610

WRZF310N-BH01 IR Remote Control Programming Unit

Specifications

Operating Range: 32°F to 104°F (0°C to 40°C)
Batteries: 1.5 VAC size AA x 2 (included)
Enclosure Dimensions: 5.3 in x 2.8 in x 0.9 in (135 mm x 70 mm x 24 mm)

Ordering Information

Part No.	Description
WRZF310N-BH01	IR remote control programming unit