



WHC1

WEATHERPROOF HEATER CONTROLLER

WHC1 Weatherproof Heater Controller Overview

The WHC1 Weatherproof Heater Controller, developed by Bradshaw Communication Systems, provides user adjustable and temperature based heater control. The WHC1 is typically used to control single-phase AC heaters found in earth station antenna hubs and electronic equipment enclosures. Alternately, the WHC1 may be used to provide user adjustable "low temperature" alarm indication in the event the ambient air temperature surrounding the WHC1 drops below the preset temperature setting.

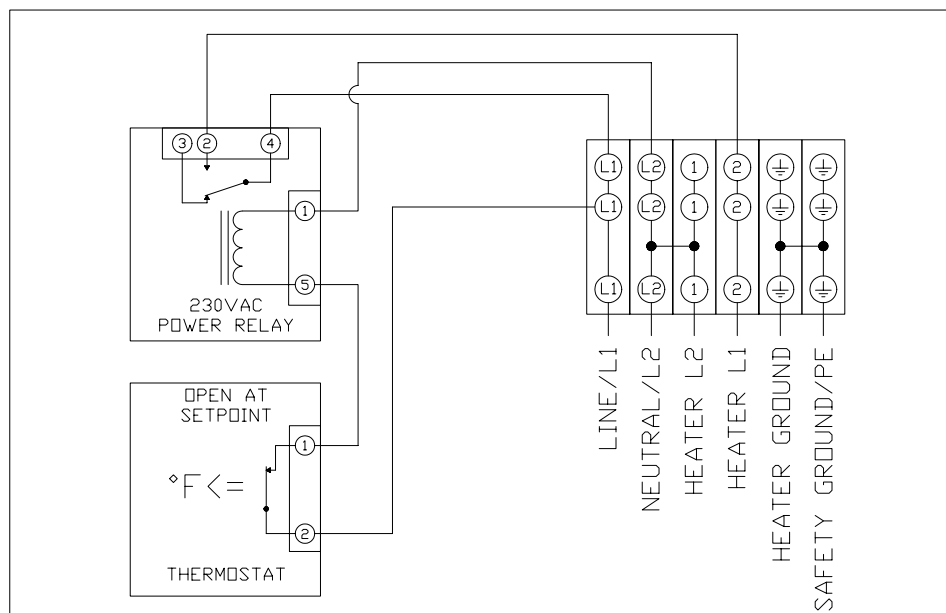
The WHC1 is housed in an IP66/NEMA 4X enclosure, thus supporting the most rugged outdoor applications. The WHC1 is equipped with two watertight cable entry glands that support the use of a wide range of cable diameters.

With a user adjustable set point temperature range of 30 to 140 degrees Fahrenheit, the WHC1 allows great flexibility for use in many applications and environments. Power is applied to the heaters when the ambient temperature drops below the selected setpoint value and is likewise removed when the ambient temperature rises above the setpoint value.

Electrical terminations located inside the WHC1 enclosure are provided via cage clamp style terminal blocks, providing fast, easy, and accurate termination of interface wiring. Individual terminals for single-phase input power, heater power, and a terminal actuation tool are provided standard with each WHC1.

The WHC1 has been designed to provide long life and ease of adjustment while still allowing the system integrator great flexibility in use, configuration, and mounting.

WHC1 Weatherproof Heater Controller Schematic Diagram (230VAC Version)



BRADSHAW COMMUNICATION SYSTEMS

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WHC1 Weatherproof Heater Controller Specifications

- **Sensing Element**
 - Thermostatic Bi-Metal
- **Adjustment Range**
 - 30 – 140° F
(Contacts Close Below & Open Above Setpoint)
- **Switching Difference (Hysteresis)**
 - +/-4° F
- **Electrical**
 - 15 Amps Max. @ 230 +/-10% VAC 50/60Hz (P/N 04-02000-1)
 - 15 Amps Max. @ 115 +/-10% VAC 50/60Hz (P/N 04-02000-2)
- **Electrical Termination**
 - Cage Clamp Style Terminal Blocks
(Actuation Tool Provided)
 - 26-14 AWG Wire Size
- **Mounting**
 - Four 0.190" Diameter Mounting Holes
 - Hole to Hole Dimensions 4.53" Square
- **Cable Entry**
 - Cable O.D. Range: 0.230-0.530 inches
- **Environmental**
 - -20° F to +122° F, 95% humidity, condensing
(-29° C to +50° C, 95% humidity, condensing)
 - Enclosure Rating: IP66 (NEMA 4X)
- **Physical**
 - Enclosure Dimensions
5.12" wide x 5.12" high x 2.95" deep
(130mm wide x 130mm high x 75mm deep)
 - Weight: 1 LB (0.45 Kg)
 - Enclosure Color/Type: Light Gray/Polystyrene
 - Cable Gland Protrusion: 1.25" (31.75mm) Nominal
- **Approvals**
 - The WHC1 has been designed to meet or exceed CE, UL, & CSA safety requirements.

WHC1 Weatherproof Heater Controller Options

- **WHC1 Weatherproof Heater Controller**
 - P/N 04-02000-1
WHC1 - 230VAC, 50/60Hz, w/2 Cable Glands
 - P/N 04-02000-2
WHC1 - 115VAC, 50/60Hz, w/2 Cable Glands

Conclusion

With over 40 years of combined experience in the Satellite Communications Industry, Bradshaw Communication Systems (BCS) has the solution to get your job done right and on time. By providing extremely high quality products and services at economical prices, BCS has become a respected name in the industry and the right choice when it comes to satellite earth station antenna products and services. BCS has provided custom solutions for numerous customers and stands ready to provide components, systems, and services to best fit your specific requirements. Please contact BCS today regarding your requirements.