

POWERLINK



HC4 Burst Firing Power Controller instruction manual

1) Installation

The controller should be mounted to allow airflow through the heatsink naturally. The maximum ambient temperature should not exceed 40 Deg. C.

2) Protection Fuse

A 20A fuse (10 X 38mm HRC) which is on the print circuit board is used to protect the load short circuit.

3) Wiring

A HC4 controller should be connected according to the wiring diagram as shown in fig. 1. The size of cables for controlling signals should be larger than 0.5 mm sq. and the cable to L, N and cables to the load must be sufficient to withstand the maximum current rating of the LOAD and meet the IEE WIRING REGULATIONS.

4) Set-up procedure

After connecting the load to a power controller, set the input signal to minimum (0V). Switch on the mains supply. The output voltage or current to the load should be zero (except the leakage current which is less than 6mA). Gradually increase the input signal and check that the output is switching ON and OFF according to the input signal. The output LED will illuminate when the output is switched ON.

5) ALL STANDARD UNITS ARE FACTORY SET UP AS FOLLOWS

- a) A HC4 is factory calibrated for 0-10V input range. It should not require any calibration unless other input signal range is applied to a HC4.
- b) With the input at minimum (0V), switch on the mains supply to a HC3 unit.
- c) With an input of 9V for 0-10V input range (for other input range, set the input to 90% of the max. input), adjust the MAX pot clockwise until the output voltage or current is at maximum.
- d) With 8V input signal, the output is switching on nearly 100%. The output LED switches on for about 90% and off for about 10% of the switching period.
- e) With the input at 1V for 0-10V input range (for other input range, set the input to 10% of the max. input), adjust MIN POT until the output is zero.
- f) With 2V input signal, the output switches on slightly. The output LED switches on for about 10% and off for about 90% of the switching period.
- g) Repeat step c) to f) until the output is at maximum and zero and all the conditions are met.
- h) Set the input to 5V, the output on and off period (the output LED on and off time) is nearly equal. Adjust the cycle time pot clockwise to increase the cycle time to a desirable value.

Specification

Supply voltage	192V to 264Vac
Supply frequency	47Hz to 63Hz
Operating temp.	0 to 40 Deg. C
Storage temp.	-10 to 80 Deg. C
Input signal	0-10V as standard.
Current rating	natural cooling, 17A max.
Cycle Time	typical 3 seconds at half power
Isolation	2500Vrms between input and output
Min. holding current	30mA
Repetitive peak voltage	600V
Dimensions	W: 86mm x H: 100mm x D: 70mm
Mounting	mounting pitch, 86 to 89mm, fixing with 2 off 4mm screws

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