

MODEL BLC SERIES BASE-LOAD-CONTROLLER

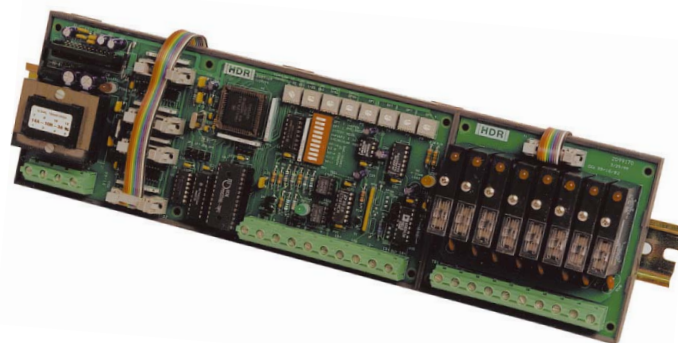
Base-Load-Controller with 2 to 32 Outputs

The **BLC Series** Base-Load-Controller is micro-processor based and designed to control up to 31 base loads plus one SCR controlled load.

Mechanically, it consists of two assemblies: the controller module (1 required) and the eight channel output module (1 to 4 required).

DIP switches allow the user to easily program for the number of base loads, (whether or not an SCR controlled base load will be used) and which control mode (up/down or circular) will be used. Potentiometers provide easy adjustments for cycle time and input/output analog signals i.e. 4-20mA. Diagnostic indicators indicate operational status.

Designed to be used with one or more zero-fired SCR Power Controller, HDR's Base-Load-Controller can help eliminate light flicker normally associated with large zero-fired loads. High harmonics and low power factor caused by large phase-fired loads can be improved using a base-load-controller combined with a phase-fired SCR Power Control.



MODEL BLC

- Compact Size
- Modular Design
- Complete Solidstate
- Diagnostics Indicators
- Base Loads Individually Fused
- Command Signal Indicator
- Transient Protection
- Optically Isolated Input Command Signal 4-20mA
- Slide-wire Input
- Easily Programmable
- Silkscreen Printed Circuit Board
- Din-Rail Mounted

Refer to HDR Application Note 1012 for Additional Information

Applications:

Primarily used to control large resistive heating loads

- High temperature furnaces
- Large ovens, kilns & heaters
- Boilers

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SPECIFICATIONS:

Control Method: Solidstate Relays

Voltage Rating: 120 or 240 Vac, 15 VA

Output Switch Rating: 280 Vac @ 3A
(100A pk surge)

Command Signal: 4-20mA, manual potentiometer, slide wire

Isolation: 2500 volts rms from all I/O to ground

Adjustments: Zero and span, up/down time

Ambient Temperature: Operating: 0° to 50° C
Storage: -10° to 70° C

Relative Humidity: 0 to 95% (non-condensing)

Weights: Control module: 1.5 lbs.
Output module: 1 lb.

HOW TO ORDER:

Make one selection from each of the tables below. Place the selections in the corresponding boxes to build your model number.

BLC- - - - - - -

1
2
3
4
5
6
7

1 CONTROL VOLTAGE

120 Vac

240 Vac

2 # OF BASE LOADS

01 to 31

3 COMMAND SIGNAL TABLE

4-20mA

*Manual Pot Input

Slide-wire

4 SCR DRIVE OUTPUT

No SCR Used

4-20mA

*Requires external potentiometer (5K)

5 CONTROL MODE

Up/Down

Circular

6 RAMP TIME

001 to 250 sec

7 CABLE LENGTH^Δ

1-3 Feet

Standard (leave blank)

^ΔIf the controller module and all output modules will NOT be mounted in one horizontal line, please specify additional cable length needed.

DIMENSIONS:

