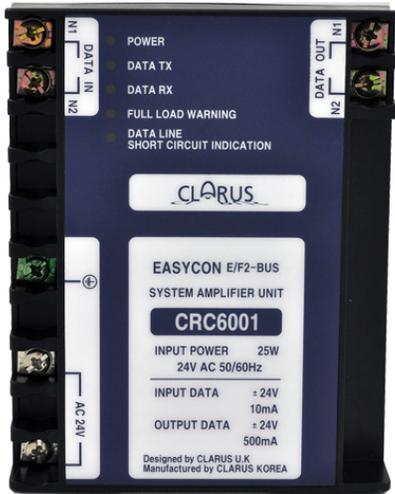


## SYSTEM AMPLIFIER UNIT



### OVERVIEW

The CRC6001 System Amplifier Unit is a system level device used to boost the signal strength by 500mA to the 2-Wire signal bus from any of the system controllers (CRC1001, CRC1201, CRC1301). The signal bus must be amplified when the signal draw exceeds the signal output or when the wiring distance exceeds the maximum limit.

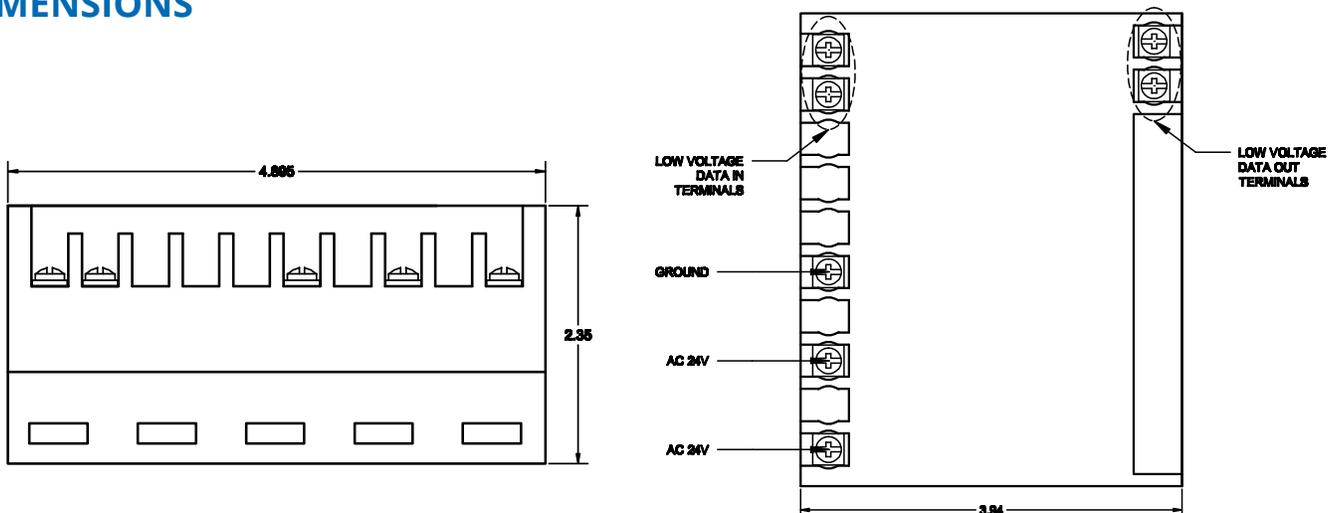
### FEATURES

- Adds an additional 500mA to the 2-Wire system bus capacity
- Provides for extended wiring distances when needed
- Indicator lights for Power, Data TX and RX, Full Load Warning, and DataLine Short Circuit Indication (output side)
- Mounts using 5-spaces of Panel Mounting Straps

### SPECIFICATIONS

Size:	2.35" H x 3.94" W x 4.90" L (Overall) (60mm x 100mm x 124mm)
Weight:	12.35 oz
Mounting:	Panel Mounting Strap(x5)
Input Signal:	±24VAC 10.0 mA
Output Signal:	24VAC 500 mA
Operating Temp:	14 to 131°F (-10 to 55°C)

### DIMENSIONS



## LED INDICATOR CHART

INDICATOR	COLOR	DESCRIPTION
POWER	RED	Indicates if power is supplied
DATA TX	GREEN	Indicates when control signal is being transmitted
DATA RX	GREEN	Indicates when control signal is being received
FULL LOAD WARNING	YELLOW	Warning signal for full load (lights up when current load of approximately 500mA or more is present)
DATA LINE SHORT CIRCUIT	RED	Lights up when output signal line has a short circuit present

## DESIGN NOTES

	WIRE SIZE (AWG)				
	16	18	20	22	24
<b>LONGEST SINGLE RUN BETWEEN COMPONENTS IN FEET (METERS)</b>	<b>1650 FT (500 M)</b>	<b>1000 FT (315 M)</b>	<b>600 FT (200 M)</b>	<b>400 FT (125 M)</b>	<b>250 FT (75 M)</b>
<b>TOTAL DISTANCE RUN AMONG ALL COMPONENTS IN FEET (METERS)</b>	<b>5000 FT (1500 M)</b>	<b>3000 FT (945 M)</b>	<b>1800 FT (600 M)</b>	<b>1200 FT (375 M)</b>	<b>750 FT (225 M)</b>

1. Each additional amplifier extends wiring distance by the lengths listed in the above table.
2. An amplifier must be added if the total signal draw of all devices on a segment of the 2-Wire databus exceeds 500 mA or if the 2-Wire wiring length exceeds the specified limits.