



# **Datasheet**

# Dual level trip amplifier, BD120/1 230Vac

## RS Stock number 466-2400



### **SPECIFICATIONS**

Please note that the following are typical ranges. Other ranges available, please contact sales office.

#### DC Current

Standard Ranges 0 to 10mA into 100 ohms 4 to 20mA into 62 ohms Optional Ranges 0 to 1mA into 100 ohms 0 to 10mA into 10 ohms 4 to 20mA into 10 ohms Option: Upscale drive on loss of 4 to

Other current inputs as required

#### Minimum current 10µA Maximum current 100mA

20mA input signal

D C Voltage Between -250 and +250 Volts DC Minimum voltage span 5mV Maximum voltage span 500V Input Impedance:1MΩ greater

A C Current A C Voltage 0 - 250 V

#### Resistance (2 wire)

Minimum span 5 ohms Maximum span 20K ohms

### Potentiometers (3 wire)

Between 0 and 10K ohms Minimum span 10 ohms Maximum span 10K ohms

#### **Resistance Thermometers** (RTDs, PT100s)

2 or 3 wire 100 or 130 ohms at 0°C Measurable range, -200°C to +800°C Minimum temperature span 10°C Maximum temperature span 600°C Input is linearised

Thermocouples Type B, E, J, K, N, R, S & T Temperature covered: Type Range MinTemp Change B 600 to 1800°C 400°C E -260 to 1000°C 65°C J -200 to 1200°C 80°C K -260 to 1370°C 100°C N 0 to 1300°C 150°C R 50 to 1760°C 400°C S 80 to 1760°C 400°C T -260 to 400°C 100°C Automatic cold junction compensation Open circuit thermocouple monitoring upscale or downscale drive

#### **OUTPUTS: DC Current**

0 to 10mA into 10 to 1500 ohms 4 to 20mA into 10 to 750 ohms Other ranges as required Minimum span 1mA Maximum span 20mA

#### **DC Voltage**

The voltage output is derived from passing a mA signal through an internal resistor

0 to 1 Volt DC thru 51 ohms 0 to 10 Volt DC thru 510 ohms 1 to 5 Volt DC thru 240 ohms Other ranges as required Minimum span 1 Volt DC Maximum span 10 Volt DC

#### Input/Output//Supply Isolation

600 Volts > 20M ohms

N.B. Each output can be of a different type and range i.e. 1 x 4 to 20mA and 1 x 1 to 5 Volts

#### SUPPLY: **Power Supplies**

115 Volt AC ±15% 50/60 Hz 230 Volt AC ±15% 50/60 Hz

#### **Power Required** 3VA Maximum

## Pilot Light

Red LED shows Power ON

#### GENERAL:

#### Linearity Error Proportional to input ±0.1% of span

#### Response Time <50mS - Step 0 to 65% -3dB at 4.5KHz

#### **Temperature Coefficient** ±0.1% of span/\_10°C

Operating Storage / Temperature Range 0 to +45°C / -20 to +60°C

#### Weight 345 gms

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



# ENGLISH

