

Ramp Generator L900RG Mark II

Function: The L900 Ramp Generator MarkII is a universally programmable Ramp Generator. The L900RG Mk II can be set to:

- 1) Ramp UP or DOWN at a User or Factory Set rate upon the closing of a digital input (with either a Ramp and Hold function or a Ramp/Reset/Ramp continuous cycle function);
- 2) Act as a count position converter (output ramps UP or DOWN as the input is pulsed with rate of ramp proportional to the pulse rate);
- 3) Ramp UP or DOWN with an external Analogue input controlling the rate of RAMP (i.e., UP-4mA=No Ramp, 20mA=Full Speed Ramp);
- 4) Ramp UP or DOWN with an external Analogue input controlling the rate of RAMP (12mA=No Ramp, 4mA=Full Speed DOWN Ramp and 20mA=Full Speed UP Ramp);
- 5) Ramp UP or DOWN upon the resultant of a comparison of two Analogue inputs (A=B No Ramp, A>B Ramp UP, B>A Ramp DOWN with the ramp rate set by the difference between the signals)



QC SERIES CONVERTERS

SPECIFICATIONS

INPUTS:

Analogue

Inputs 1 and 2

DC Current

4 to 20mA into 232 ohms

Digital Inputs

UP, DOWN, RESET and CLOCK

DC Voltage

5 Volt TTL Pulse

or

Volt Free Contact

FUNCTIONS:

- 1) Ramp UP and STOP
- 2) Ramp DOWN and STOP
- 3) Ramp UP, drop to Zero and Ramp UP again.
- 4) Ramp DOWN, jump UP to Full Scale and Ramp DOWN again
- 5) Ramp UP and then DOWN

All five of the above functions can be reset to the start of the sequence by an external input.

All five of the above functions can have the Ramp Rate varied by the use of an external Analogue input.

6) Ramp UP or DOWN as the input is pulsed with the Ramp Rate proportional to the Pulse Rate.

7) Ramp UP or DOWN depending upon the value of an Analogue input.

4mA Ramp DOWN at full speed

8mA Ramp DOWN at 1/2 speed

12mA No RAMP

16mA Ramp UP at 1/2 speed

20mA Ramp UP at full speed

8) Ramp UP or DOWN depending upon the difference of two Analogue inputs - A>B Ramp DOWN.

B>A Ramp UP

No Difference NO Ramp

Ramp Rate proportional to difference in signals

OUTPUTS:

DC Current

Between 0 and 20mA

Minimum span 1mA

20mA into 10 to 1000 ohms

10mA into 10 to 2000 ohms

DC Voltage

Between 0 and 10 Volts

into 1K ohms minimum

Minimum span 1 Volt

Ramp Speed (Programmable)

Between 1 and 600,000 seconds

(approximately 1 week)

SUPPLY:

Power Supplies

100 to 120 Volt 50/60 Hz

200 to 240 Volt 50/60 Hz

or 24 Volt DC with converter to

maintain signal to power supply isolation

Power Required

3 Watts maximum

Pilot Light

Green LED shows Power ON

GENERAL:

Resolution

1:18000

Temperature Coefficient

±0.1% of span/ Δ 10°C

Operating Temperature Range

0 to +50°C

Storage Temperature Range

-20 to +85°C

Operating Humidity Range

0 to 95% RH non-condensing

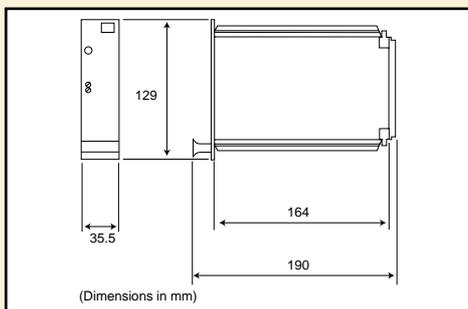
Storage Humidity Range

0 to 95% RH non-condensing

Weight

L900RG 290 gms

MECHANICAL DETAILS



TERMINATION DETAILS

Termination details are dependent upon input type and upon type of housing chosen (19" rack or DIN rail mounting enclosure) and, if 19" rack, screw terminals or solder terminals. Further details upon request from our internal sales department.

ORDERING DETAILS

- (a) Give identification code, i.e. L900RG MkII
- (b) Give power supply voltage, i.e. 240 Volt 60 Hz
- (c) Give details of input signals to be used, i.e. Volt Free Contact
- (d) Give details of output required, i.e. 4 to 20mA

- (e) Give details of FUNCTION and RAMP RATE required if you wish us to factory set the instrument
- (f) If programming yourself then please just specify items (a),(b),(c) and (d)



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