

ADC374X Adjustable Ramp Generator Unit

- Suitable for SIL 1 & SIL 2 rated (IEC61508) safety system loop applications, 1oo1 architecture (HFT:0)
- Suitable for volt free or volt applied contact inputs
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 available ('K' option; RF Immunity 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$)
- AMELEC Standard 10 year warranty

Technical Specifications

Typical Input/ Function

Volt Free (or DC Voltage applied) contact closure to either raise or lower the output from 0 to 100%, with the output held at last level when both contacts are open.

Either the time of contact closure can determine how long the output takes to rise / fall from 0 to 100%, Or each contact closure event can step the output up or down by a fixed percentage of span (Typically 10 pulses/0-10 steps for 0-100% span, i.e 10% step changes).

Output

Any standard process current or voltage in the range of;
Current source up to 22mA max, with drive voltage 24Vdc (Current Sink option available, 30Vdc max external drive)
Voltage source from 0.4V span, up to 20V max output
Typically 4-20mA (max load 1200 Ω) or 0-10Vdc (min load 500 Ω)

Typical Fixed Ramp Times

Factory set at 10, 20 or 40 seconds full range 0-100%,
Or 10% span step changes per contact closure/pulse.

Intermediate Ramp Times, AC Voltage applied input or 'other' customised function available on request.

Isolation/Protection

1000V RMS*. (Inputs to Output)/Supply/Earth
*(500Vdc when RFI option 'K' is specified)

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95 RH

Mounting/Dimensions

Either Din Rail (TS35) **or** Surface by corner fixing holes
Enclosure: 50w x 75h x 110d mm (K option = 182d mm)

WIRING

