

ADC374(X) Dual Input Ramp Generator Unit

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Suitable for volt free or voltage applied contact inputs
- Supply voltage options:
 - 115Vac ±20%
 - 240Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option; RF Immunity 20MHz-3GHz/5.25GHz ≤10V/m)
- AMELEC Standard 10 year warranty

Technical Specifications

Typical Input/ Function

Volt Free (or DC Voltage applied) contact closures 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 closures 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*).

N.B; The inputs share a common 0v.

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 1200Ω) or 0-10Vdc (min load 500Ω)

Typical Fixed Ramp Times

Factory set at 10, 20, 30 or 40 seconds full range 0-100%, Or 10% span step changes per contact closure/pulse.

Suffix 'X' options

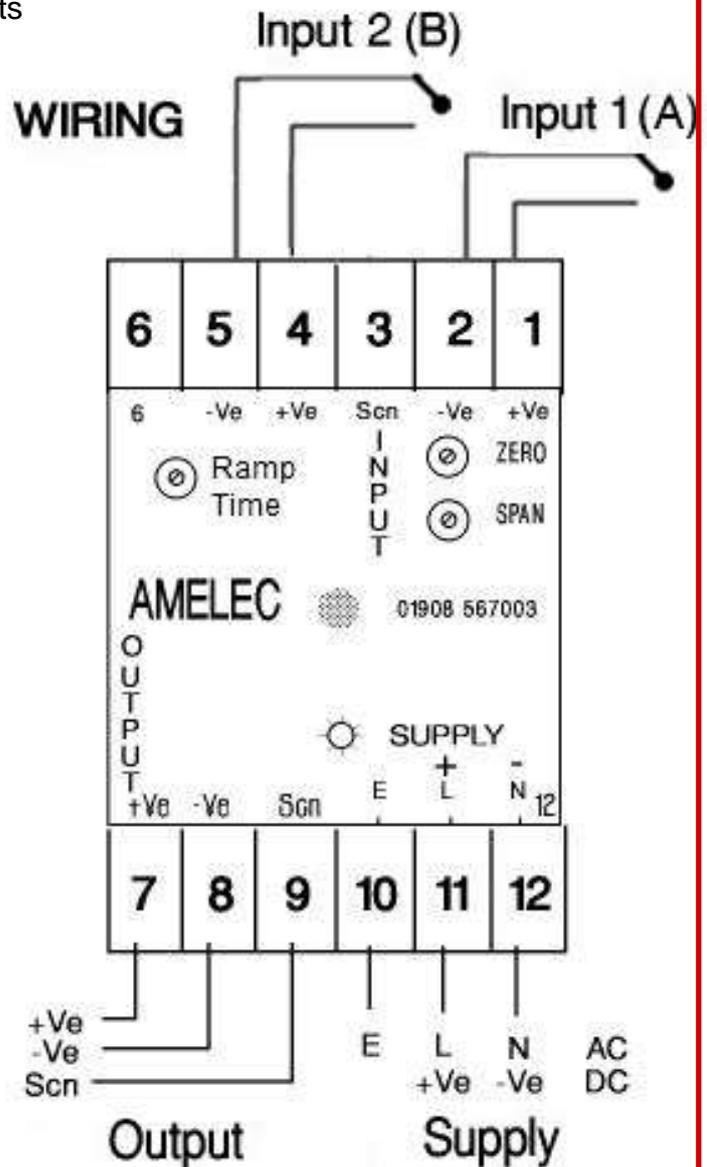
Adjustable Ramp Times, AC Voltage applied inputs or 'other' customised functions available on request.

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 (Non-condensing)



Mounting:

Din Rail (TS35) **or** Surface by corner fixing holes as standard

Dimensions: 50w x 75h x 110d mm

(K option enclosure = 182d mm)