

## ADC314X-4 Four Input Summator unit with Dual Trip set points

- Supply voltages: 24Vdc / 24Vac/115Vac / 230Vac
- Amelec standard 10 year warranty
- Suitable for SIL 2 rated Safety Loop (EN 61508-2) applications, as 1oo1 architecture (HFT:0)
- Non-Smart/Non-uProcessor based unit (Type A)

### FUNCTION

Four input Summator with two set points & change over relay contact outputs.

### TECHNICAL SPECIFICATION

#### INPUT 1, 2, 3 & 4

DC Current / Voltages can be specified in the range of:  
Current up to 100mA max (Passive/Sink port)  
Voltage up to 150Vdc max  
Typical inputs: 0-10Vdc or 4-20mA  
(Note: Inputs will share a Common internal 0V).

#### ANALOGUE OUTPUT

Output representing the total Sum of 4 x input signals, equally weighted or with internal scaling/ if required .  
Typical output range: 0-10Vdc or 4-20mA-(Active port).

#### TRIP / RELAY OUTPUTS

Each trip output is a set of S.P.C.O contacts, rated at 250VAC, 2A, 100VA resistive.  
Relays De-energise on Trip & Fail Safe on loss of power as std. Red LED indication of each relay status (ON Energised, Extinguish in Trip/De-energised state)

#### CONTROLS

Zero / Span for output calibration. (+/- 20%):& Trip set points (0-100% range). All 15-turn potentiometers

#### INDICATOR

LED, Amber: Power **ON**:  
LED, Red: 2x Trip status (ON=Energised/healthy state)

#### PERFORMANCE

Accuracy / Linearity: <math>\lt; \pm 0.1\% \text{ span}</math>  
Response time: Typically <math>\lt; 200\text{mS}</math> (0-100% step)

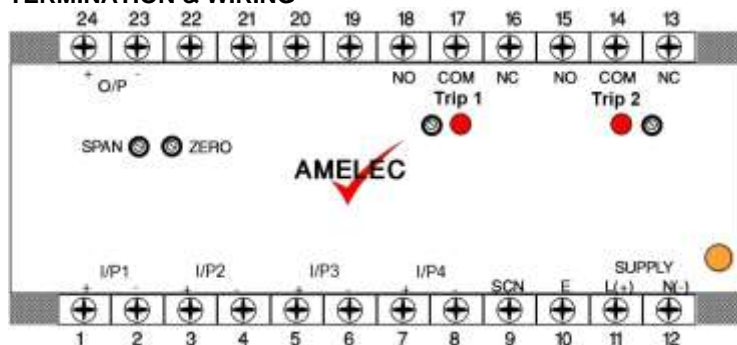
#### PROTECTION

Input O/C response: Downscale drive  
Isolation 1000V RMS:  
Inputs/Output/Contacts/Supply/Earth  
Internal Fuse: 1 x 250mA  
Input over range: up to typically 300%.

FRONT VIEW (Single Trip unit shown)



### TERMINATION & WIRING



### ENVIRONMENTAL CONDITIONS

Storage temperature: -40 to +70 °C  
Operating Ambient: -15 to +55 °C  
Relative Humidity: 5 to 95% RH (Non-Condensing)  
EMC : 2014/30/EU , EN 61326-1:2013 (Controlled EM)

### MOUNTING / DIMENSIONS

Enclosure: 152w x 81h x 137dmm  
Mounting: Din Rail (TS35)  
Weight <math>\lt; 300\text{g}</math>

### ADD ON / OPTIONS

DI: LCD display for local monitoring  
P: Output Test Point  
Non standard Power supply ranges available  
Special Arithmetic Functions available