AMELEC
SIGNAL CONDITIONING

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: < ±0.1% span
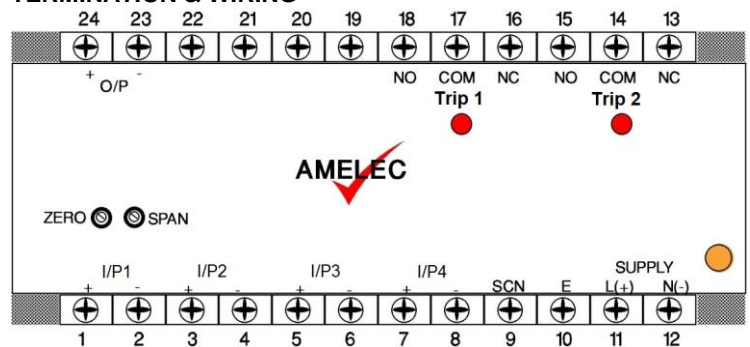Response time: Typically < 200mS (0-100% step)

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 CONDITION

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

MOUNTING / DIMENSION

Enclosure: 152w x 81h x 137dmm
Mounting: Din Rail (TS35)
Weight < 300g

ADD ON / OPTIONS

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