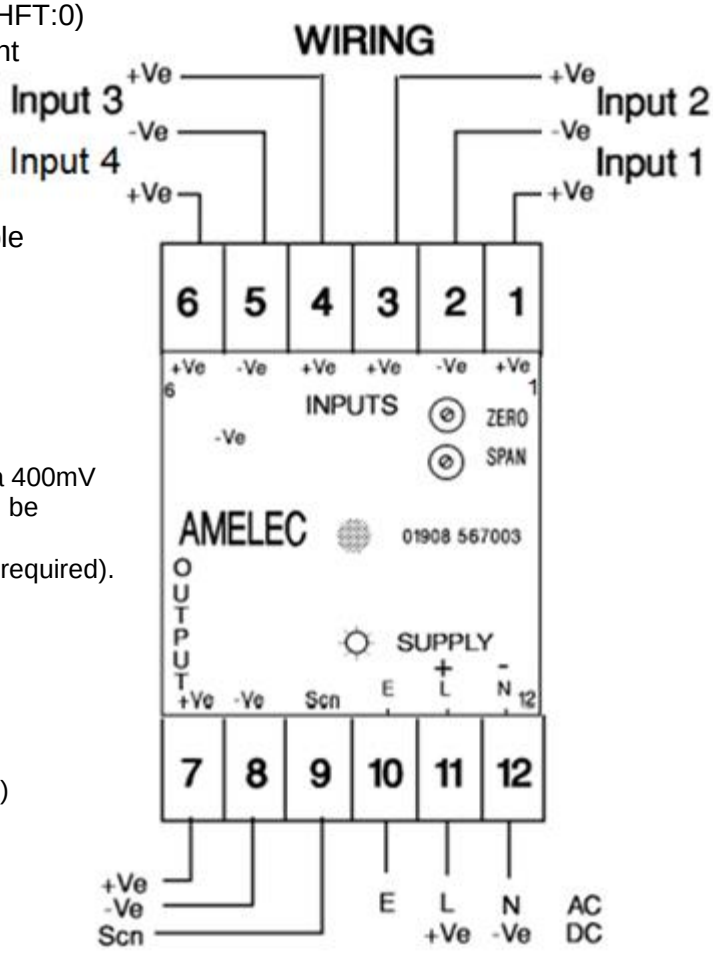
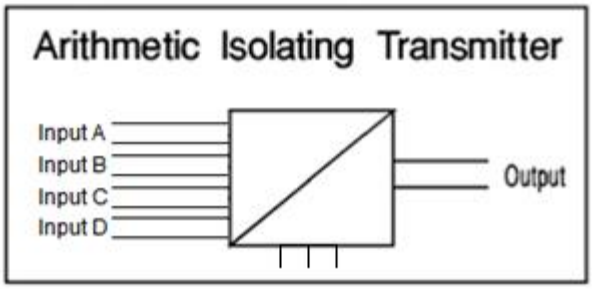
ADC314X-4 Four Process Input Adder/Averager Unit

- Suitable for SIL2 (EN 61508-2) rated safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options: 115Vac ±20%
  240Vac ±20%
  24Vdc ±10%
  12Vdc ±10% (Option 'X')
- RFI Protection to EN 61000-4-3:2006/A2:2010 available (Option 'K')
- AMELEC Standard 10 year warranty





Technical Specifications

Input
Any current that can be terminated in a PI network to produce a 400mV span. The inputs share a common internal 0V as std, so should be isolated from each other at source.
(Version of this unit with Internally isolated inputs is available if required).

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 up to 20Vdc max output.
Typically: 4-20mA (max load 550Ω) or 0-10Vdc (min load 500Ω)

Typical equations
Adder = A+B+C+D (Each input = 1/4)
Averager = (A+B+C+D)/4

Indicator
Power ON: LED, Amber.

Performance
Accuracy/Linearity: <±0.1% span
Response time: <200mS
Supply consumption: <3VA

Protection
Isolation: 1000V RMS* (I/P1+I/P2+I/P3+I/P4)/Output/Supply/Earth.
*(500Vdc when 'K' option RFI protection is specified)
Internal Fuse
Input over range: up to typically 300%
Input Open Circuit response: Downscale drive

Environmental Conditions
Storage Temperature: -40 to +70°C
Operating Ambient: -15 to +55°C
Relative Humidity: 5 – 95 RH (Non-Condensing)
EMC: 2014/30/EU , EN 61326-1:2013 (controlled EM)
('K' option: EMC/EMI/RFI protection to the highest Generic Industrial levels)

Standard Dimensions: 50w x 75h x 110d mm

Add On / Options
'K' Option RFI Protection to IEC61000-4-3
(20 - 3000MHz ≤10V/metre)
'K' Option Dimensions; 50w x 75h x182d mm

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ

Issue 2b: 2021