

ADC314X-5 Five Input Arithmetic / Summator / Averager Unit

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications (HFT: 0)
- Non-Smart/Non-uProcessor based, Type A instrument
- Supply voltage options: 115Vac ±20%
240Vac±20%
24Vdc ±10%
48Vdc ±10%
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage that can be terminated in a PI network to produce a 400mV span. The inputs share a common internal 0V as std, however an isolated inputs version is also 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 1200Ω) or 0-10Vdc (min load 500Ω)

Typical equations

$$A+B+C+D+E; (A+B+C+D+E) \div 5; (A+B+C+D) - E$$

Performance

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

Protection

Isolation: 1000V RMS Input(s)/Output/Supply/Earth.
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)

Dimensions / Mounting

152w x 81h x 137d (mm) / Din Rail (TS35)

Indicator

Power **ON**: LED, Amber.

