

ADC314KX-4 Four Process Input Adder/Averager Unit

- Suitable for SIL1, SIL2 & SIL3 (IEC61508) rated safety loop applications
- Suitable for any process input
- Supply voltages: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 2.5V$
12Vdc $\pm 1.2V$
- RFI Protection to IEC61000-4-3 (20 - 1000MHz, 10V/m)
- 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 0v.

Output

Any standard process current or voltage
Current source up to 20mA. Drive voltage 24Vdc.
Voltage source up to 10V. Max current 20mA.

Typical equations

Adder = $A+B+C+D$ / Averager = $(A+B+C+D)/4$

Isolation

500Vdc (I/P 1 + I/P 2 + I/P 3 + I/P 4)/Output/Supply/Earth

Controls

15 turn potentiometers
Zero/Span $\pm 20\%$

Indicator

Power ON: LED, Amber.

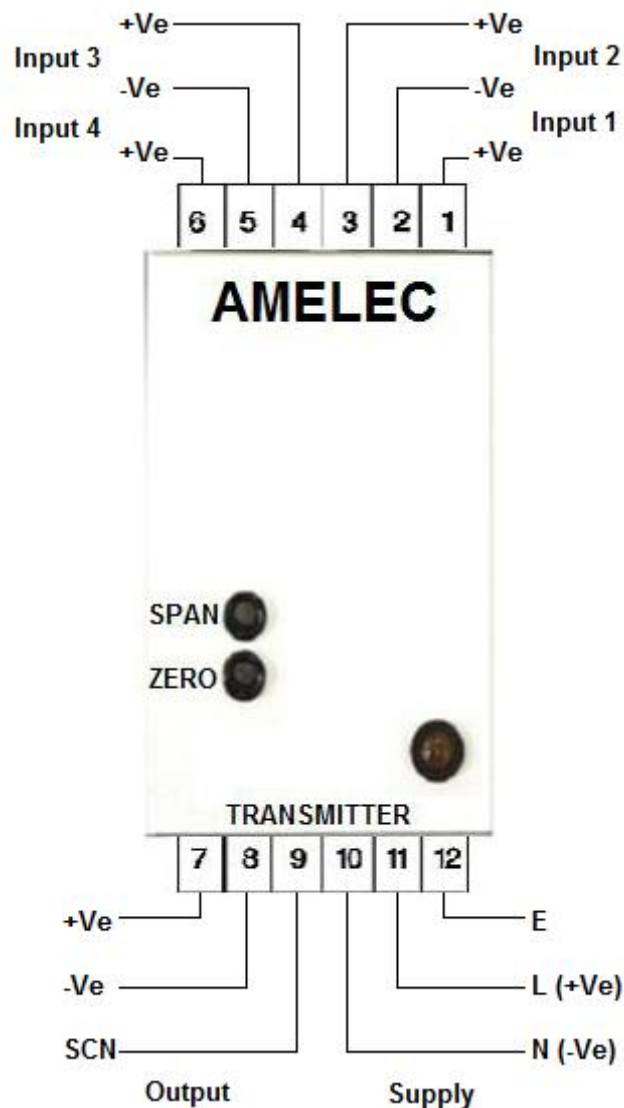
Performance

Accuracy/Linearity: $< \pm 0.1\%$ span
Response time: Typically $< 200\text{ms}$
Supply regulation: AC $\pm 20\%$, DC $\pm 10\%$
Supply consumption: $< 2\text{VA}$

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95 RH

Wiring Diagram



Input Load / Output Drive

Typical Inputs

Current: 4 - 20mA
Voltage: 0 – 10Vdc

Typical Output

Current: 4 – 20mA max load 1200Ω
Voltage 1 – 5 Vdc min load 250Ω

Dimensions (mm)

50w x 75h x 182d