

Input 2

ADC315 Two Input Multiplier / Divider Unit

Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)

Non-Smart / Non-uProcessor based, Type A instrument

Supply voltage options: 115Vac ±20%

230Vac ±20% 24Vdc ±10%

48Vdc ±10%

RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)

AMELEC Standard 10 year warranty

Technical Specifications

Inputs

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span.

Current from 1mA span, up to 100mA max input (passive port) Voltage from 0.4V span, up to 150Vdc max input (impedance \geq 1M Ω) Typical Inputs: 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω) The inputs share a common internal 0V, however an isolated version is available on request if required ('X' option).

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 on request, 30Vdc max external drive) Voltage source up to 20V max output

Typical Output: 4-20mA (max load 1200Ω) or 0-10Vdc (min load 500Ω)

Typical Equations

 $A \times B \sim (A + B)/2 \sim A/B \sim 3A/B \sim (A \times B)/2$

(Other special equations / functions available on request)

Performance

Accuracy/Linearity: <±0.1% Span

Response Time: typically <100mS (0-100% input step change)

Supply consumption: <3VA

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 Standards Test levels)

Protection

Isolation: 1000V RMS* Inputs/Output/Supply/Earth.
*(500Vdc when 'K' option RFI protection is specified)

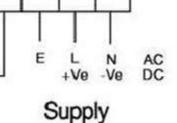
Internal Fuse

Input over range: up to typically 300%

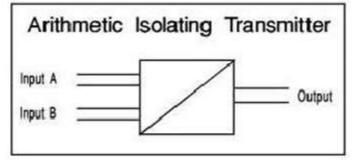
Input Open Circuit response: Downscale drive as std



Output



11



WIRING

3

10

5

AMELEC

-Ve

8

OUTPU

7

Input 1

Scrn

Ve

+Ve

1

+Ve

ZERO

SPAN

12

(Ø)

01908 567003

Mounting: Either Din Rail (TS35) or Surface by corner fixing holes as standard

Dimensions: 50w x 75h x 110d mm

(**DI** option=145d mm, **K** option= 182d mm)

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