

ADC315X Combined Multiplier and Divider

- Suitable for any process input(s)
- Supply voltages: 115Vac ±20%
240Vac ±20%
24Vdc ±2.5V
48Vdc ±5V
- AMELEC Standard 10 year warranty

Environmental Conditions

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

Isolation

1000V RMS Input(s)/Output/Supply/Earth

Accuracy

Linearity <±0.1%
Divider dynamic range 10:1

Others:

To stop the denominator failing to a zero in the equation a low level limiter has been fitted to ensure (A+B) is always > 5% of span

Technical Specifications

An arithmetic unit to perform a multiply and divide calculation the 4-20mA input signals from the field are terminated in 20 ohms resistors in one unit and the resultant volts wired in parallel to the second unit.

Input

The first units 3 x 4-20mA (load 20 ohms)
The second unit 3 x 80 to 400mV (load 1M ohms)

Output

A 4-20mA current source, drive voltage up to 24V

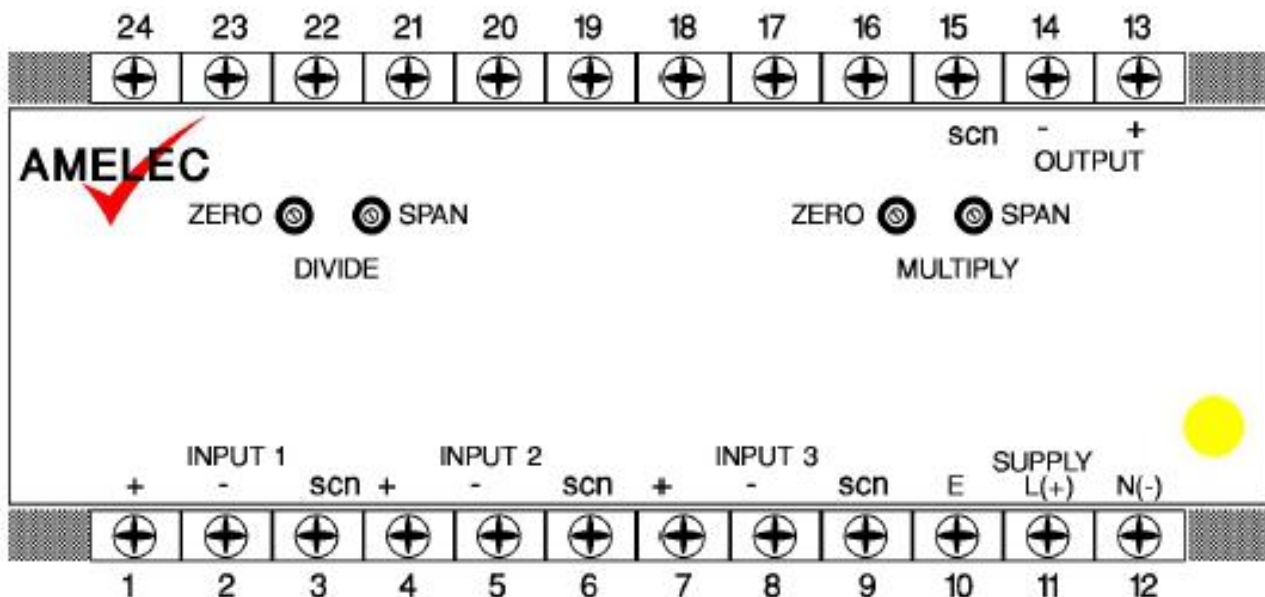
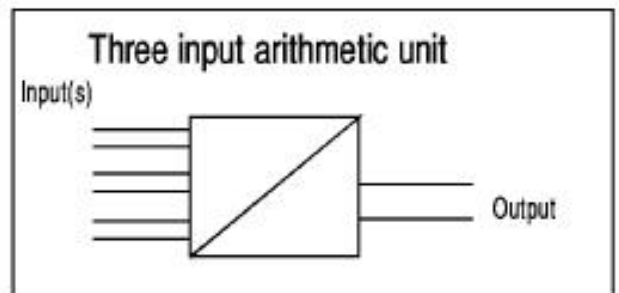
Equation

The mA unit: $Output = (B/(A+B)) \times C$

The mV unit: $Output = (A/(A+B)) \times C$

Where:

- Input 1 = Signal C
- Input 2 = Signal A
- Input 3 = Signal B



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