

## AEC231AC/DC Process Signal Conditioner/Splitter

- Suitable for combinations of Process I/V Input & Outputs
- True universal AC/DC supply voltage 21V through 265V AC/DC
- Non-Smart/Non-uProcessor based, Type A instrument

### Technical Specifications

#### Input

The input signal range is 4-20mA (impedance 50Ω) as std. Other Current (up to 100mA max, Passive input port) or Voltage (up to 150Vdc max) ranges are available on request. Signals are routed into a pi network to develop a 1V ref span. Other Typical Input ranges include; 0-1mA, 0-10mA, 0-20mA, 1-5mA, 0-1V, 0-5V, 0-10V, 0-50V, 0-100V, 1-5V, 2-10V dc.

#### Output

The output signal ranges are 4-20mA (Active ports, into 650Ω max loads) as std, with other ranges available on request. The current source can be up to 20mA with a drive voltage of 13V. The voltage source can be up to 10V's, max drive 3mA. Other Typical Output ranges include; 0-10mA, 0-20mA, 1-5mA, 0-1V, 0-2V, 0.4-2V, 0-5V, 0-10Vdc, 1-5V, 2-10Vdc.

The mA outputs are configured as Active/Source ports as std. Passive/Sink port options are available on request.

#### Performance

Accuracy/Linearity: <math>< \pm 0.1\% \text{ span}</math>  
 Response time: <math>< 250\text{mS}</math> (0-100% input step change)  
 Isolation: 1000V RMS Input/Output/Output/Supply  
 Supply regulation: Universal 21V up to 265V (AC or DC)  
 Supply consumption: <math>< 3\text{VA}</math>  
 Input O/C response: Downscale drive

#### Environmental Conditions

Storage Temperature: -20°C to +70°C  
 Operating Ambient: -16°C to +55°C  
 Relative Humidity: 5 – 95% RH (Non-condensing)  
 EMC: 2014/30/EU , EN 61326-1:2013 (Controlled EM)

#### Dimensions & Mounting

22.5w x 75h x 105d mm enclosure for Din Rail (TS35)

