

AEC230 Process Signal Conditioner / Isolator

- Non-Smart/Non-uProcessor based, Type A instrument
- True universal AC/DC supply voltage 21V through 265V AC/DC

Technical Specifications

Output 1

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.

<u>Outpu</u>t

The output signal range is 4-20mA (Active port, into 650Ω max load) 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 output is configured as an Active/Source port as std. Passive/Sink port option is available on request.

Performance

Response time: <250mS (0-100% input step change)

Input O/C response: Downscale drive Accuracy/Linearity: < ±0.1% span

Isolation: 1000V RMS Input/Output/Supply

Supply regulation: Universal 21V up to 265V (AC or DC)

Typical Burden on 24Vdc supply: <1.3W Typical Burden on AC supply range: <3W

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)

Input +Ve -Ve N +Ve L Vdc Vac

WIRING

O/P1

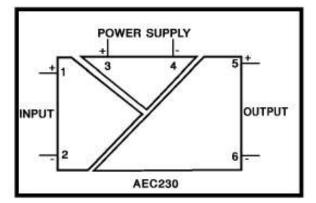
CH-1

AMELEC

AEC230AC/DC

O SPAN

→ ZERO



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