

AEC250 AC Voltage/Current Signal Conditioner / Isolator

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

Technical Specifications

Input

Any Sinusoidal AC Voltage or Current signal.
 Voltage span range from 50mV up to 150V ac
 Current span range from 1mA to 200mA ac .
 Frequency range from 10 - 400Hz as std (up to 5000Hz available)
 Typical Input: 0 – 5mA AC, 0-10mA AC, 0-20mA AC, 0-10Vac or 0-20Vac.

Output

The output signal range is 4-20mA (Active port, into 650Ω max load) as std, with other ranges is 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: < ±0.5% 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)

