

ADP460 Supply Frequency Monitoring Transducer

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Power Supply options:
 - 115Vac ±20%
 - 230Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 'K' option available; (RF immunity: 20MHz-3GHz/5.25GHz ≤10V/m, 80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

The ADP460 will monitor its own supply voltage, or alternatively any external ac voltage up to 440Vac max
Typicaly: 110Vac, 220Vac, 240Vac or 440Vac.

Frequency inputs: 50Hz ±2Hz, 50Hz ±5Hz, 60Hz ±2Hz, 60Hz ±5Hz, 400Hz ±10Hz or 400Hz ±20Hz

Output

Any standard process current or voltage (dc) signals
Current source up to 20mA or Voltage source up to 10Vdc
Typical: 4-20mA (max 1200Ω load) or 0-10Vdc (min 500Ω load)

Isolation

1000V RMS* Input/Output/Supply/Earth
*(500Vdc if 'K' option specified)

Performance

Accuracy: <0.2%
Linearity: <±0.1%
Supply consumption: <3VA
Input Open Circuit response: Downscale drive as std

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)

Dimensions / Mounting

Std Enclosure: 50w x 75h x 110d mm
TS35 Din Rail or Surface by corner fixing holes

‘K’ option Enclosure: 50w x 75h x 182d mm
TS35 Din Rail or Surface by optional Keyhole plate

WIRING (Ext. Input)

