

ADP442 Single Phase Power Factor (cosØ) Transducer

- Externally Power or Self Powered option available.
- Transducer to measure the cosine of the phase angle between the current and the voltage.
- Supply voltage options 115Vac ±20%

240Vac ±20%

415Vac ±20% 24Vdc ±20%

Accuracy Class: 0.5 (<±0.5% max error, down to 10% f.s)

Technical Specifications

Input

Standard current options: 0-1Amp or 0-5Amps Standard voltage options: 63V, 110V, 230V or 415Vac

Output

standard process current or voltage options include; ±1mA, ±5mA, ±10mA, ±20mA, 4-12-20mA, ±10Vdc. Directly proportional to the cosine of the phase angle between the current and the voltage

Isolation

4000V rms 50Hz 1 min Input/Output/Case/(Aux Supply)

Environmental Conditions

Storage Temperature: -40 to 75°C
Operating Ambient: -20 to 65°C
Relative Humidity: 0 – 95% RH

Burden

Current circuit Burden: <0.3VA (aux supply) Voltage circuit Burden: <0.2VA (aux supply)

(<3VA when Self Powered option specified)

N.B; 80-120% working range when self powered

Input Power factor

Standard $\cos\emptyset$ options: 0.5 - 1 - 0.5 or 0 - 1 - 0 (Other ranges also available on request)

Input Frequency

50Hz or 60Hz option available

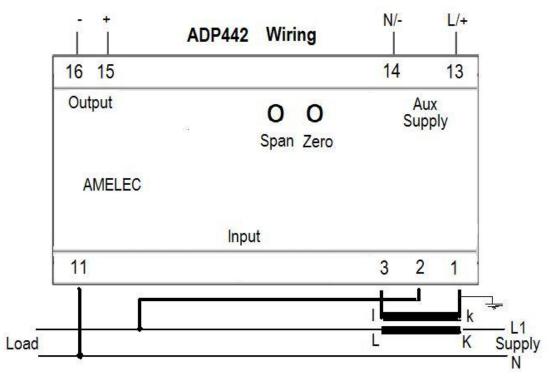
Weight

700g

Mounting / Dimensions

Din Rail (TS35)

Enclosure: 100w x 70h x 112d mm (with front screw terminal connections)



Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735 AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ