

## ADP442 Single Phase Power Factor ( $\cos\phi$ ) 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 ( $<\pm 0.5\%$  max error, down to 10% f.s)

### 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  $\cos\phi$  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)

## 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;  
 $\pm 1mA$ ,  $\pm 5mA$ ,  $\pm 10mA$ ,  $\pm 20mA$ , 4-12-20mA,  $\pm 10Vdc$ .  
 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)

