

## ADP452EPK AC Voltage Transducer / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated safety system loop applications (IEC61508)
- Suitable for ac voltage monitoring
- Supply voltages:
 

115Vac	±20%
240Vac	±20%
24Vdc	±2.5V
48Vdc	±5V
110Vdc	±11V
- RFI protection to IEC61000-4-3:2006/A2:2010 (20-3000 MHz 10 V/m, 20-1000MHz 30V/m)
- Amelec standard 10 year warranty

### TECHNICAL SPECIFICATION

#### INPUT

AC Voltage ranges up to 500Vac max,  
Typically; 0-100Vac, 0-220Vac or 0-440Vac.  
Intermediate ranges available on request at no extra cost

#### OUTPUT

DC current or voltage specified in the range of:  
Current up to 100mA max in Sink configuration (externally powered)  
Current up 22mA max Source configuration (Internally powered)  
Voltage any from 0.4 to 20V max @ up to 5mA per output.  
Typical output range: 4 - 20mA (Source, max load 1200ohms)

#### CONTROLS

15 turn potentiometer.  
Zero ± 25%  
Span ± 50%

#### INDICATOR

Power ON: LED, Amber.

#### PERFORMANCE

Linearity/Accuracy: < ±0.2%  
Response time: Typically < 200mS  
Supply regulation: AC ± 20%, DC ±10%  
Supply consumption: <2VA  
Input open circuit response: Downscale drive as std

#### PROTECTION

Isolation 500Vdc: Input/ Output/Supply/Earth  
Internal Fuse.  
Input over range up to typically 300%.  
RF Immunity: 20MHz-3GHz/5.25GHz 10V/m,  
(80MHz-1GHz/5.6GHz 30V/m, 889MHz-1.75GHz 40V/m)

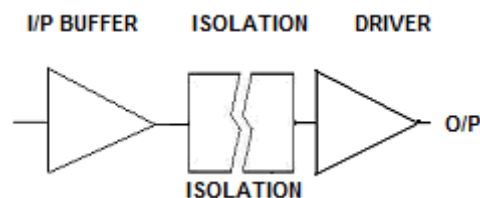
#### TERMINATION

		1
	~	2
AC Input	Scn	3
	~	4
		5
		6
OUTPUT +		7
OUTPUT -		8
	Scn	9
	Earth	10
	Live / +	11
	Neutral / -	12

#### FRONT VIEW



#### FUNCTION BLOCK DIAGRAM



#### ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C  
Operating Ambient: -15 to +55 °C  
Relative Humidity: 5 to 95% RH

#### MOUNTING / DIMENSION

Enclosure: 50w x 75h x 182d mm  
Mounting: DIN Rail (TS35) or Surface by Seismic keyhole plate  
(Seismic mounting plate option Dims: 50w x 130h mm)  
Weight < 500g

#### ADD ON / OPTIONS

P: Test point (Output loop monitoring)  
DI = A 3½ digit display of the input or output in units to suit

Non standard Power supply ranges & Plug-in Terminal options also available