

## ADC313X-OP Output Signal Selector / Isolator

- Supply voltage options: 24Vdc / 115Vac / 230Vac
- RFI protection to IEC61000-4-3:2006/A2:2010 available
- Amelec standard 10 year warranty
- Suitable for SIL 1, 2, & 3 (IEC 61508-2) applications

### APPLICATION

- In case of line fault or maintenance requirements, the input can be switched remotely from one output to the other, to continue operations/ reduce downtime.

### TECHNICAL SPECIFICATION

#### INPUT

DC current / voltage can be specified in the range of:  
Current up to 100mA max (Passive)  
Voltage 0.4 to 150V dc max  
Typical input: 4 - 20mA (Passive, impedance 20Ω)

#### VOLT FREE CONTACTS

Volt free contacts. (Wetted by 24Vdc @ 10mA Max)  
Open contact = Input routed through to the output 1  
Closed contact = Input routed through to the output 2

#### OUTPUT

DC current or voltage specified in the range of:  
Current up to 100mA max in Sink configuration (externally powered)  
Current up to 22mA max Source configuration (Internally powered)  
Voltage any from 0.4 to 10V max @ up to 20mA.  
Typical output range: 4-20mA (Source, max 550Ω load)

#### CONTROLS

Zero / Span (+/- 20%): 15 turn potentiometers for calibration.

#### INDICATOR

Power ON: LED, Amber.

#### PERFORMANCE

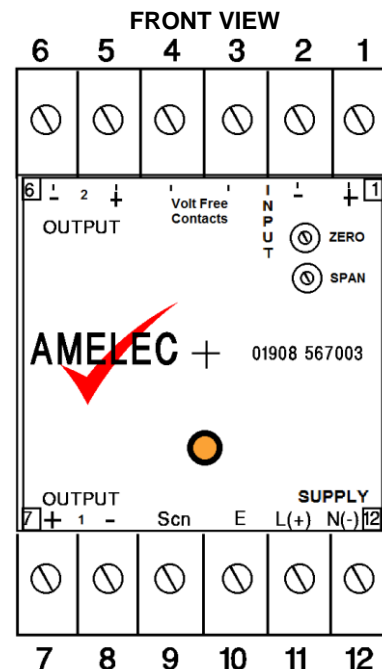
Linearity: < ±0.1%  
Response time: Typically <100mS  
Accuracy: < ±0.1%

#### PROTECTION

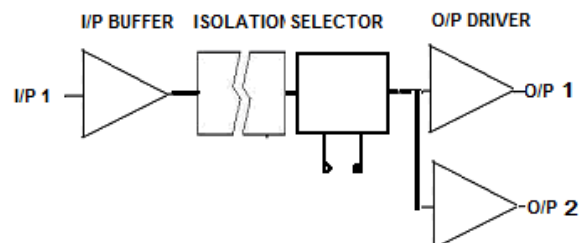
Input O/C response: Downscale drive  
Isolation 1000V RMS\* Input(s)/Output/Supply/Earth  
\*(500Vdc if 'K' option specified)  
Internal Fuse.  
Input over range up to typically 300%.

#### TERMINATION

I/P +	1
I/P -	2
Output Select	3
V Free Contact	4
OUTPUT 2 +	5
OUTPUT 2 -	6
OUTPUT 1 +	7
OUTPUT 1 -	8
Scn	9
Earth	10
Live / +	11
Neutral / -	12



#### 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 110d mm  
Mounting: Din rail (TS35) or Surface by corner fixing holes  
Weight < 200g  
(\*K' option enclosure Dims = 50w x 75h x 182d mm)

#### ADD ON / OPTIONS

DI: LCD display for local monitoring  
J : Input injection jack socket  
P: Test point  
Non standard Power supply ranges available