

## ASW521 RTD Two-Wire Transmitter

- Suitable for use as element in SIL 1 & SIL 2 rated (IEC61508) Safety System Loop applications, as 1oo1 architecture (HFT:0)
- Suitable for combinations of RTD Inputs & 4-20mA Outputs
- Supply Voltage **24Vdc**  $\pm 50\%$
- Amelec standard 10 year warranty

### TECHNICAL SPECIFICATION

#### Input

From 2 / 3-wire PT100 RTD, with a temperature span greater than 25°C

(PT500 / PT1000 input options available on request)

#### Typical Input ranges:

0-50°C, 0-100°C, 0-150°C, 0-250°C, -20 to +35°C, -10 to +120°C

#### Output / Supply

As the input temperature signal varies from 0-100% of calibrated range, the supply current is modulated from 4mA to 20mA.

Nom 24Vdc output loop Supply, although may vary from 12V to 36Vdc.

The maximum line resistance is determined by the supply voltage level.

#### Performance (@nom.24Vdc supply)

Isolation: 250V RMS Input/Supply  
 Accuracy:  $< \pm 0.1\%$  resistance Span  
 Linearity:  $< \pm 0.1\%$  resistance Span  
 Response time:  $< 400\text{ms}$   
 Input Over range:  $\leq 300\%$   
 DC Supply variation:  $\pm 50\%$

#### Environmental Conditions

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

#### Dimensions

22.5w x 75h x 110d mm



#### WIRING

