

# **ADW521 RTD Two Wire Temperature Transmitter**

### **Description**

The ADW521 RTD input Two-Wire Transmitter is suitable for use as an element in SIL 1 & SIL 2 rated (IEC 61508) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0).

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

Non-Smart/Non-uProcessor based, Type A instrument.

Warranty period: 10 Years.

## **Technical Specifications**

### Input

Any 2 or 3 wire PT100 resistance temperature sensor. Third wire compensation to overcome lead resistance variation (PT130 / PT500 / PT1000 & 4 wire input options available)

### Typical Input ranges

-15 to +25°C, 0-50°C, 0-100°C, 0-150°C PT100, 3-wire connection

Nominal 24Vdc (Can vary from 12 to 36V dc)

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

### Performance

Accuracy/Linearity: < ±0.1% span 10 - 90% Time constant: < 400mS

Isolation: 250V RMS Input/Supply Input Open Circuit response: Upscale drive as standard

Optimum operating conditions when supply voltage 24Vdc

'K' option- RF Immunity available: 20MHz-3GHz <10V/m (80MHz-1GHz/5.6GHz <30V/m, 889MHz/1.75GHz <40V/m)

### **Environmental Conditions**

Storage Temperature: -40 to +70°C

Operating Ambient: -15 to +55°C/(+60°C max) Relative Humidity: 5 – 95% RH (Non-Condensing) EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

('K' option to highest Generic Industrial levels)

### **Dimensions**

50w x 75h x 110d mm

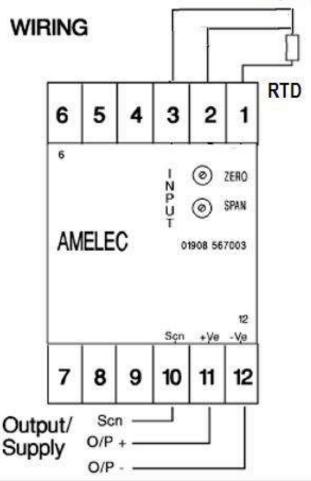
('K' option enclosure = 182d mm)

### Mounting

Either Din Rail (TS35) or Surface by corner fixing holes as std.

('K' option enclosure may be specified as either Din Rail (TS35) or Surface mounting by rear Keyhole plate)

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Input