

ADW513 mV Input Two Wire Transmitter/Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Description

The ADW513 is an isolated mV input signal two-wire transmitter. As the input signal varies from 0 to 100%, the supply current is modulated from 4-20mA.

General Specifications

(Optimum operating conditions with output loop supply voltage @24Vdc)

Input

Any mV signal range, up to 400mV span.
Typically: 0-20mV, 0-50mV or 0-100mV dc (impedance 250kΩ)

Supply

Nominal 24Vdc, can vary from 12V to 50Vdc.
The maximum line resistance is determined by the Output loop Supply Voltage.

Performance

Accuracy/Linearity: $\leq \pm 0.1\%$ Span
Response Time: typically $< 100\text{ms}$

Protection

Isolation: 250V RMS Input/Supply
Input over range: up to typically 300%
Input Open Circuit response: Up or Downscale drive option (to be specified at time of orders)

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5-95% RH (Non-condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)
(‘K’ option: EMC/EMI/RFI protection to the highest Generic Industrial Standards Test levels)

Mounting

Either Din Rail (TS35) **or** Surface by corner fixing holes

Dimensions

50w x 75h x 110d mm

(K option enclosure = 50w x 75h x 182d mm)

