

ADW531 Process Input Two Wire Transmitter/Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- 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 ADW531 is an isolated Voltage / Current input 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 current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span.
 Current from 1mA span, up to 100mA max input (passive port)
 Voltage from 0.4V span, up to 150Vdc max (impedance $\geq 1M\Omega$)
 Typically: 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω)

Supply

Nominal 24Vdc, can vary from 12V to 36Vdc.
 The maximum line resistance is determined by the Output loop Supply Voltage.

Performance

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

Protection

Isolation: 250V RMS Input/Supply
 Input over range: up to typically 300%
 Input Open Circuit response: Downscale drive

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)

