

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 Ω) 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: <±0.1% Span Response Time: typically <100mS

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)

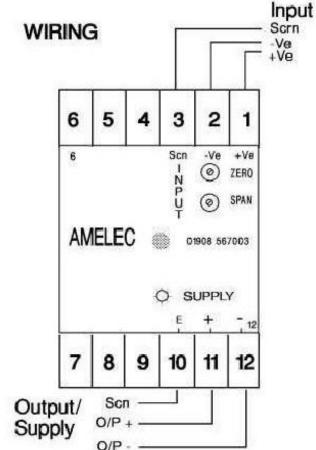
Mounting

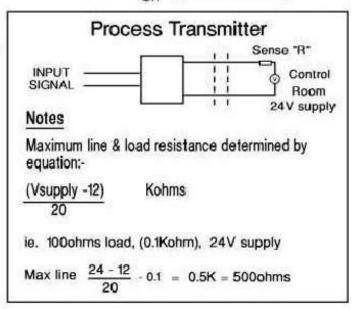
Either Din Rail (TS35) or Surface by corner fixing holes

Dimensions

50w x 75h x 110d mm

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





Tel: 01908-567003 Email: <u>sales@amelec-uk.com</u> Visit: <u>www.amelec-uk.com</u> Fax: 01908-566735 AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ