

ADW231 Dual Output Loop Powered Transmitter / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- High Accuracy
- Low Volt Drop
- Non-Smart / Non-uProcessor based, Type A instrument
- High Noise Immunity

Description

The ADW230 series units are used in applications where an isolated signal is required on site and the only power is that provided by the existing loop(s).

The ADW231 is a dual output channel unit.

The Isolator is often used when there is a design update, where there is a need to create a new loop which does not interact with the original loop.

Technical Specifications

Input Current	-50 to 50mA
Full Scale Volt Drop	2.5V
Isolation	1000V RMS
Linearity	<0.1%
Load Resistance Error	5ppm/ Ω
10-90% time Constant	50mS
Operating Ambient	-15 to 55°C
Humidity	5-95%

Optimum Operating Conditions

Input Current	0-20mA @ 24V
Output Current	0-20mA
Output Resistance	0-600 Ω

Maximum Transient Conditions

Surge Voltage	1.5kV, 50 microS pulse
Surge Transient	10kV/microS
Overload Capacity	\pm 50mA Input Current

Environmental Conditions

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

Dimensions / Mounting

50w x 75h x 110h mm, Din Rail (TS35) or Surface mount

Notes

1. The device is protected against reverse polarity
2. The ADW231's overall output drive capability shared between the two outputs is 5V less than the voltage available in the original current loop.

