

## Programmable, Auxiliary Powered, Signal Isolator/Converter

### wavePak DC/DC



The wavePak DC/DC signal isolator/converter is a DIN rail mount device that accepts analogue voltage or current signals from field devices and provides an isolated voltage or current output.

- Auxiliary Powered
- 24Vdc power for loop powered input devices
- Test points for Input and Output current monitoring
- Simple secure calibration method
- Calibration allows for input to output scaling and reverse action if required
- LED status indication
- Complete Input to Output to Power Supply Isolation
- Compact 12.5mm wide housing



# Auxiliary Powered, Programmable, Signal Isolator/Converter

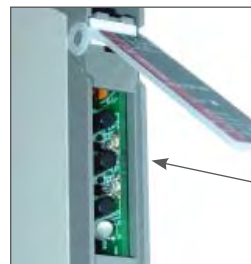
## Four-wire Isolators

The wavePak DC/DC 4-wire DC Input Isolator provides 3-way isolation for all standard DC milliamp and voltage signals, with better than 0.1% accuracy (typically 0.05%), for simple elimination of ground loops where auxiliary power is available.

## Features



- Compact 12.5mm wide housing
- Three way isolation
- 24Vdc field supply for loop powered transmitter inputs
- Test points for input and output signal monitoring
- 12-60Vdc power supply
- Scaleable input to output
- Output action direct or reverse

## View with front panel open



**Easy push  
button  
calibration**

## Technical Data

Input	
Type	Analogue current or voltage signals (Jumper select)
Range limits	Inside the range 0-22.00 mA or 0-11.00 V
Minimum recommended span	4mA or 2V
Transducer supply:	20mA 24Vdc±10%
Current Drive Voltage	
Input Impedance	100Ω (current inputs) or >1MΩ (voltage inputs)
Resolution	3.5μA/1.76mV per bit
Measurement Category	III
Output	
Type	Current/Voltage (Jumper select)
Range limits	Inside the range 0.00-22.00mA or 0.00-11.00 V
Minimum recommended span	4mA or 2V
Current drive	1kΩ @ 20mA
Voltage drive	minimum 500kΩ @ 10V
Resolution	3.5μA/1.76mV per bit
Output ripple	< 20mV peak-to-peak
Power Supply	
Type	DC powered
DC	12-60Vdc
Power usage	3W at 24Vdc
Isolation	
Ports	Input / Output / Power Supply / Case
Impulse Withstand	4 kV (1.2 / 50)
Isolation	2 kV (between ports)
Environmental Conditions	
Operating temperature	0 to 60 °C
Storage temperature	-25 to +70 °C
Pollution Degree	2
Relative humidity	10-90% (non-condensing)
Performance	
Linearity	Better than ±0.1% (typical ±0.05%)
Temp drift	<0.05% span per °C
Long term drift	0.1% per 10,000 hours
Overall Response	350ms
Output rise time (10-90%)	260mS
Input sampling rate	32Hz
Housing	
Type	Double Insulated, Dual DIN rail mount
Dimensions	75.5 x 12.5 x 119(max)
Connection type	Screw connections for 12-28AWG wire (Tighten to 4.5lb-In)
Weight	270g
Approvals	
Mark	
wavePak DCDC	 E256486
	 LV Directive EMC
Standard	
	CAN/CSA C22.2 No. 1010.1:92 UL61010-1: 2004
	EN50178:1998 BS EN 61326:1998 + A2

## Connections

Terminal	Signal	
1	Supply +	Power Supply
7	Supply -	
4	Voltage Input +	Voltage Input
3	Voltage Input -	
2	Current Input +	Current Input
3	Current Input -	
3	Device +	Loop Powered Transmitter Input
2	Device -	
6	Voltage Output +	Voltage Outputs
5	Voltage Output -	
8	Current Output +	Current Outputs
5	Current Output -	

## Test Points

Terminal	Set multimeter to	Signal
4	Volts +	Voltage Input
3	Volts -	
2	mA +	Current or Loop powered device Input
4	mA -	
6	Volts +	Voltage Outputs
5	Volts -	
8	mA -	Current Outputs
6	mA +	

## Ordering Information

Type	Cat. No.
wavePak DC/DC	<b>7940024139</b>