



LP-VPW WINDOW VOLTAGE TRANSDUCER LP-VP-DSW DUAL SLOPE VOLTAGE TRANSDUCER



The LP-VPW window transducer and LP-VP-DSW dual slope transducer convert ac voltage inputs into an output signal which is proportional to the rms calibrated rectified arithmetic mean of the input.

Accurate measurement assumes a sinusoidal input waveform.

To enhance the resolution of the reading the transducer can be set up to operate with a window or a dual slope.

The window option suppresses the lower end of the range so that the transducer reads over a band of voltage centred on the nominal working voltage of the system being measured.

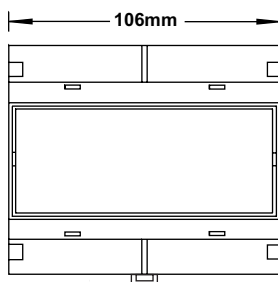
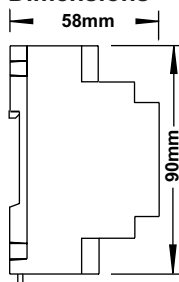
The dual slope option has a lower resolution at the low end of the range with a higher resolution centred on the nominal working voltage of the system being measured.

Power for the unit is derived from an external source.

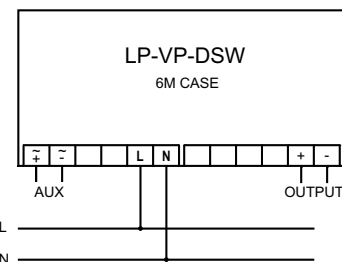
Specifications

Inputs	Sinusoidal alternating voltage	
	Standard nominal range	: All system voltages to 550V
	Standard window	: $\pm 20\%$ of V_{nom}
	Dual slope	: $\pm 20\%$ of V_{nom} for 80% of output
	Input burden	: 1mA ac
Outputs	Frequency range	: 50Hz, 60Hz
	Standard outputs available	: 4 - 20mA dc $< 750\Omega$: 0 - 20mA dc $< 750\Omega$: 0 - 10mA dc $< 1500\Omega$: 0 - 10V dc $> 2k\Omega$: 0 - 5V dc $> 2k\Omega$
	Ripple	: $< 1\%$ pk to pk of full span
	Response time	: $< 250\text{ms}$ 0 - 90% : $< 500\text{ms}$ 0 - 99%
	Load influence	: $< 0.25\%$ of full span for specific load range
Accuracy	Class 0.5 to IEC 60688	: $\pm 0.5\%$ of nominal output for specified range
	Frequency influence	: $< 0.02\%$ per Hz
	Drift	: $< \pm 0.5\%$ over the range 0°C to $+60^\circ\text{C}$
Overload	Input	: $1.5 \times V_{nom}$ continuous : $2 \times V_{nom}$ for 10 seconds
	S/C output	: continuous
	O/C output	: continuous, $V_{o/c} < 30\text{V}$
	Maximum output	: $< 2 \times$ nominal output
Power Supply		: 24V, 110V, 230V or 240V ac $\pm 20\%$, 1.5VA
		: 24V dc $\pm 20\%$ or 110V/125V dc (88V-138V) 2W
Isolation	Galvanic isolation between input, output circuits and auxiliary supply	
	Test voltage	: 4kV rms 50Hz for 1 minute
	Impulse	: 5kV 1.2/50 μsec waveform
Temperature	Operating	: 0°C to $+23^\circ\text{C}$ to $+60^\circ\text{C}$
	Storage	: -25°C to $+70^\circ\text{C}$ long term : -55°C to $+85^\circ\text{C}$ short term
EMC Compliance		: AS/NZS 61000.6.3:2012

Dimensions



Connections



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