



LP-IRMS SEPARATELY POWERED RMS CURRENT TRANSDUCER

The LP-IRMS current transducer converts an ac current input into a load independent output signal. The output signal is based on the a root mean square(rms) measurement of the input signal and hence the transducer can be used with distorted waveforms.

Power for the unit is derived from an external supply, this allows low input burdens and the ability to provide a live zero output (eg 4-20mA).

The unit conforms to IEC 60688. In a addition it meets the insulation requirements of IEC 60255-5, clauses 5, 6 and 8 as well as the high frequency disturbance test of IEC 60255-22 for Class III test voltage.

Ordering information: LP-IRMS, input current, output, power supply.

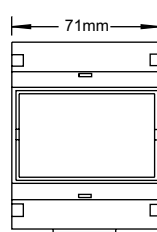
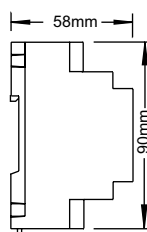
Example: LP-IRMS, input 0-5A, output 0-10mA, supply 230Vac.

Specifications

Input	Alternating current	
	Standard nominal ranges $0 - I_{nom}$	: 0 - 1A, 0 - 5A (others on request)
	Crest factor	: <5
	Input burden	: <0.1VA
Output	Frequency range	: 50Hz, 60Hz
	Standard nominal outputs	: 0 - 10mA dc <1500 Ω load
	(others on request)	: 0 - 20mA dc <750 Ω load
		: 4 - 20mA dc <750 Ω load
Accuracy		: 0 - 5V dc >2k Ω load
		: 0 - 10V dc >2k Ω load
	Ripple	: <1% pk to pk of full span
	Response time	: <250ms 0 - 90%
Overload		: <500ms 0 - 99%
	Load influence	: <0.25% of full span for specific load range
	Class 0.5 to IEC 60688	: $\pm 0.5\%$ of nominal output for specified range
	Accurate range	: 0 - 120% I_{nom}
Power Supply	Frequency influence	: <0.02% per Hz
	Load influence	: <0.25% of full span for specific load range
	Drift	: < $\pm 0.5\%$ over the range 0°C to +60°C
	Input	: $2 \times I_{nom}$ continuous, $20 \times I_{nom}$ for 3 seconds
Isolation	Output S/C	: continuous
	Output O/C	: continuous, $V_{o/c}$ <30V
	Maximum output	: <2 x nominal output
	Galvanic isolation between input, output circuits and auxiliary supply	
Temperature	Test voltage	: 4kV rms 50Hz for 1 minute
	Impulse	: 5kV 1.2/50 μ sec waveform
	Operating	: 0°C to +23°C to +60°C
	Storage	: -25°C to +70°C long term
EMC Compliance		: -55°C to +85°C short term
		: AS/NZS 61000.6.3:2012

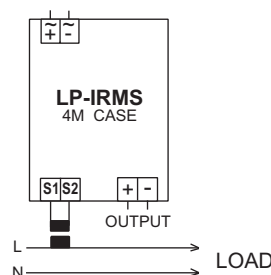


Dimensions



Connections

AUX. SUPPLY



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