



LP-1V3S SINGLE ELEMENT VAR TRANSDUCER



The LP-1V3S single element var transducer converts ac current and voltage signals into a load independent dc signal proportional to the reactive power flowing in the circuit. The transducer is designed for 3 phase 3 wire systems with a balanced load.

Standard Transducer Inputs/Outputs

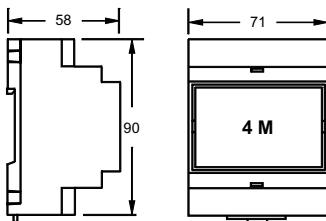
INPUTS	110V	400/415V
1A	200 var	700 var
5A	1000 var	3500 var

Whilst it is possible to calibrate the output to any reasonable power level, users are recommended to adhere to the standard values. The rated power inputs relate to the actual input to the transducer. Any CT or VT employed will have the effect of multiplying the rated power by the ratio of the transformers used.

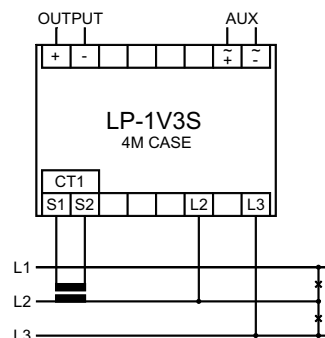
Specifications

Input	AC current and voltage, 3 phase 3 wire balanced load	
	Current	: 0 -1A or 0 - 5A (others on request)
	Voltage	: All ac system voltages to 440V
	Frequency	: 50Hz, 60Hz
Outputs	Load independent dc current or voltage signal	
		: 0 to 10mA dc <1500Ω load
		: 0 to 20mA dc < 750Ω load
		: 4 to 20mA dc < 750Ω load
		: 0 to +5V dc > 2kΩ load
	Response time	: <250ms 0 - 90% at full output
		: <500ms 0 - 99%
	Ripple	: <1% pk to pk of full span
	Load influence	: <0.25% of full span for specific load range
Accuracy	Class 0.5 to IEC 60688	: ±0.5% of full output span
	Accurate range	: 0 - 120%
	Drift	: <±0.5% over the range 0°C to +60°C
Overload	Current input	: 2 x nominal continuous
		: 20 x nominal for 3 seconds
	Voltage inputs	: 1.2 x nominal continuous
		: 1.5 x nominal for 10 seconds
	S/C output	: continuous
	O/C output	: continuous, $V_{O/C} < 30V$
	Maximum output	: <2 x nominal output
Aux. Supply		: 24V, 110V, 230V or 240V ac ±20%, 1.5VA
		: 24V or 110V dc ±20% 2W
Isolation	Galvanic isolation between input, output circuits and auxiliary supply	
	Test voltage	: 4kV rms 50Hz for 1 minute
	Impulse	: 5kV 1.2/50µsec waveform
Temperature	Operating	: 0°C to +23°C to +60°C
	Storage	: -25°C to +70°C long term
		: -55°C to +85°C short term
EMC Approvals		: AS/NZS 3548
		: C-Tick Mark

Dimensions



Connections



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 POSTAL ADDRESS: P O BOX 11 078 ELLERSLIE AUCKLAND 1542 NEW ZEALAND
 FACTORY AND OFFICE: 661 GREAT SOUTH ROAD PENROSE AUCKLAND 1061
 TELEPHONE: +64 9 525 1753 FACSIMILE: +64 9 525 1756
 EMAIL: sales@carrel-electrade.co.nz WEB: www.carrel-electrade.co.nz