



The LP-2W3 three phase Watt transducer converts ac current and voltage signals into a load independent bidirectional dc signal proportional to the active power flowing in the system. The transducer is designed for 3 phase 3 wire systems with a balanced supply and an unbalanced load.

Note. The pulse output version LP-2W3H is no longer available.

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.

Ordering information:

ormation:Voltage inputs, VT ratio ( i.e. 110V, 400V, 11kV/110V )<br/>Current inputs, CT ratio ( i.e. 1A, 5A, 1000/5A )<br/>Output, output scale ( i.e. 4-20mA, 0-10mA equals 0 to 1000W )<br/>Aux. supply ( i.e. 110Vac, 230Vac, 110Vdc )Options:Frequency ( 60Hz )

## **Specifications**

Input	AC current and voltage, 3 Current Current burden Voltage Voltage burden Frequency	phase 3 wire unbalanced load : 0 -1A or 0 - 5A (others on request) : < 0.1VA : All ac system voltages to 440V : 1mA : 50Hz, 60Hz
Outputs	Analogue Response time Ripple Load influence	<ul> <li>Load independent dc current or voltage</li> <li>-10 to 0 to +10mA dc &lt;1500 Ohms load</li> <li>-20 to 0 to +20mA dc &lt; 750 Ohms load</li> <li>4 to 20mA dc &lt; 750 Ohms load</li> <li>-5V to 0 to +5V dc &gt; 2k Ohms load</li> <li>-10V to 0 to +10V dc &gt; 2k Ohms load</li> <li>&lt;250ms 0 - 90% at full output</li> <li>&lt;500ms 0 - 99%</li> <li>&lt;1% pk to pk (of full output span)</li> <li>&lt;0.25% of full span for specific load range</li> </ul>
Accuracy	Class 0.5 to IEC 60688 Accurate range Drift	: ±0.5% of full output span : 0 - 120% : <±0.5% over the range 0°C to <u>+23°C</u> to +60°C
Overload	Current inputs Voltage inputs S/C output O/C output Maximum output	<ul> <li>2 x nominal continuous, 20 x nominal for 3 seconds</li> <li>1.2 x nominal continuous, 1.5 x nominal for 10 seconds</li> <li>continuous</li> <li>continuous, Vo/c &lt;30V</li> <li>&lt;2 x nominal output</li> </ul>
Supply		: 24V, 110V, 230-240V, 400-415V ac ±20%, 1.5VA : 24V dc ±20% or 110V/125V dc (88V-138V) 2W
Isolation	Galvanic isolation between Test voltage Impulse	n inputs, output circuits and supply :4kV rms 50Hz for 1 minute :5kV 1.2/50µsec waveform
Temperature	Operating Storage	: 0°C to <u>+23°C</u> to +60°C : -25°C to +70°C long term : -55°C to +85°C short term
EMC Compliance		: AS/NZS 61000.6.3:2012

Standard Transducer Inputs/Outputs			
Inputs	110V	400/415V	
1A	200 Watt	700 Watt	
5A	1000 Watt	3500 Watt	

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## Dimensions



