

2-1. General

This section contains accuracy, operating and environmental specifications for the Models 2100, 2101, 2101L and 2101-20mA.

2-2. Range and Resolution Tables

Model 2100

	CURRENT RANGES				
V		.2000 amps	2.000 amps	20.00 amps	
L	150.00 volts	30.00 watts	300.0 watts	3000 watts	
T	300.0 volts	60.00 watts	600.0 watts	6000 watts	
A	600.0 volts	120.00 watts	1200.0 watts	12000 watts	
E		WATTS			

Model 2101

	CURRENT RANGES			
٧		.2000 amps	2.000 amps	20.00 amps
L	30.00 volts	6.000 watts	60.00 watts	600.0 watts
	150.0 volts	30.00 watts	300.0 watts	3000 watts
G	300.0 volts	60.00 watts	600.0 watts	6000 watts
E		WATTS		

Model 2101-20mA

	CURRENT RANGES				
V O L		20.00 milliamps	.2000 amps	2.000 amps	
	30.00 volts	.6000 watts	6.000 watts	60.00 watts	
T	150.0 volts	3.000 watts	30.00 watts	300.0 watts	
AG	300.0 volts	6.000 watts	60.00 watts	600.0 watts	
E		WATTS			

Model 2101L

	CURRENT RANGES				
V O L T		.2000 amps	2.000 amps	20.00 amps	
	1.5000 volts	.3000 watts	3.000 watts	30.00 watts	
	15.000 volts	3.000 watts	30.00 watts	300.0 watts	
A G	30.00 volts	6.000 watts	60.00 watts	600.0 watts	
E		WATTS			

Accuracies

Specified accuracies are valid for a period of 1 year from the date of calibration at 25°C ± 5 °C, following a 30 minute warm-up.

Voltage - AC+DC, DC Coupled

DC and 40Hz - 5kHz: $\pm 0.1\%$ of reading ± 6 digits

5kHz - 10kHz: $\pm 0.5\%$ of reading $\pm 0.5\%$ of range $\pm 10kHz - 20kHz$: $\pm 1\%$ of reading $\pm 1\%$ of range

(Useable above 20kHz to 50kHz with typically an additional 1% error per 10kHz)

Current - AC+DC, DC Coupled

DC and 40Hz - 5kHz: $\pm 0.1\%$ of reading ± 6 digits

5kHz - 10kHz: $\pm 0.5\%$ of reading $\pm 0.5\%$ of range

10kHz - 20kHz: $\pm 1\%$ of reading $\pm 1\%$ of range (2 Amp maximum)

(Useable above 20kHz to 50kHz with typically an additional 1% error per 10kHz)

Watts - True Power (Elcoso)

DC and 40Hz - 5kHz: $\pm 0.25\%$ of reading ± 6 digits

5kHz - 10kHz: $\pm 0.5\%$ of reading $\pm 0.5\%$ of range

10kHz - 20kHz: $\pm 1\%$ of reading $\pm 1\%$ of range (2 Amp maximum)

(Useable above 20kHz to 50kHz with typically an additional 1% error per 10kHz)

Operating Specifications

Crest Factor Response: 50:1 for minimum RMS input, linearly decreasing to 2.5:1 for full

scale RMS input

Minimum Inputs: 5% of voltage and current ranges for specified accuracies

Maximum Voltage Input: Models 2100, 2101, 2101-20mA = 600VDC or RMS, ± 1500 V_{PEAK}

(without damage) Model 2101L = 30VDC or AC_{RMS} , $\pm 60V_{PEAK}$

Maximum Current Input: Models 2100, 2101, 2101L = ±35A_{PEAK}, 20ADC or RMS

continuous; 100ADC or RMS for 16 milliseconds without damage

Model 2101-20mA = $\pm 3.5A_{PEAK}$, 2ADC or RMS continuous;

5ADC or RMS for 16 milliseconds without damage

Voltage Input Impedance: Models 2100, 2101, 2101-20mA = 600kΩ

Model 2101L = $45k\Omega$

Current Shunt Impedance: Models 2100, 2101, 2101L = $.01\Omega$

 $Model 2101-20mA = 0.1\Omega$

Max Common Mode: $\pm 1500V$ peak, neutral to earth

Peak Indicators: Illuminate at 2.5 x full scale for voltage and current

Overrange: 150% of full scale for DC, up to "maximum input" specification

2-5. Environmental and Physical Specifications

Temperature Range: 0°C to 50°C operating; -20°C to 70°C storage

Temperature Coefficient: ±0.025% of range per °C from 0°C-20°C and 30°C-50°C

Power Consumption: 105-125VAC or 210-250VAC, 50-400Hz; 25VA maximum

Dimensions: 25cm W x 27cm D x 8cm H (10" W x 10.5" D x 3" H)

Weights: 1.7kg (3.5 lbs) net; 3kg (6 lbs) shipping

Source/Load Connections: 4-terminal heavy-duty input jacks

