# Value / Power

- Programmable Power, Low Cost Cost effective solution for wide range of AC power tests
- 2000 VA Output Power Capable of handling most single phase applications
- 16 Hz to 5000 Hz Frequency Range Commercial, Military and Avionics applications
- High Peak Current Capability Drives a wide variety of non-linear loads
- Precision Measurements Accurately measures TRMS Volt, TRMS Current, Peak Current, Crest Factor, Real Power and Power Factor
- Remote Control IEEE-488 and RS232C Interface for automated test applications. Includes Windows™ operating software

### **Compact AC Power**

Offering simple rotary front panel controls, the 2001RP programmable AC power source is ideally suited for a wide range of applications.

Selectable input voltage ranges allow this product to be used anywhere in the world to provide a convenient source of variable utility power for the testing and evaluation of domestic and commercial equipment. All common line voltage and frequency combinations are covered.

In addition, the frequency range extends to 5000 Hz, making these products ideal for commercial and defense avionics applications.

Accurate measurement functions are available as an option to eliminate the need for external test equipment in many test setups. Voltage, current, peak current, power, and power factor can be read directly on the large LCD display or over the bus. Overload protection is provided standard using a programmable current limit function

## Easy To Use Controls

Front panel digital rotary encoders are used to set voltage and frequency. These controls have an analog feel, with the precision and reliability of digital circuits. Settings and measurements are read directly on the large, high contrast LCD displays.

Dual output voltage ranges of 150 Vrms L-N and 300 Vrms L-N, provide maximum current at the required voltage.

The output frequency can be varied from 16 Hz up to 5000 Hz to cover commercial, avionics and defense power applications.

#### Product Development

The precise voltage regulation and wide frequency range of the 2001RP, combined with its easy to use front panel, make it a great general purpose Lab AC source. Built in measurements may be added (option -OP1) to extend the units usefulness for design applications of AC powered products.

# Affordable AC Power Solutions Model 2001RP



Model 2001RP

## **Quality Control**

For product quality test applications, the 2001RP can be used to simulate line conditions found anywhere in the world. This ensures products destined for export will operate as designed.

## **Avionics Applications**

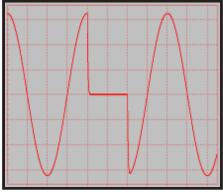
As an affordable and reliable source of 400 Hz AC power, the 2001RP is well suited for commercial and defense avionics applications. A special Avionics version (-AV option) is available which offers reduced weight and increased output current at 115  $V_{\text{RMS}}$ .

#### **Functional Design**

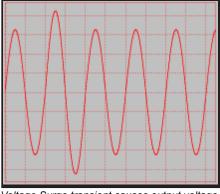
The small form factor and low weight of the 2001RP make it convenient to use in a variety of locations. Removable rubber feet protect the work surface if the unit is used in a bench top mode. The 5.25 inch height saves valuable rack space when used in a rack and stack system.

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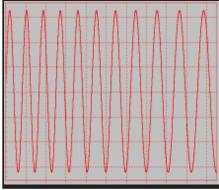
# 2001RP - For Easy Transient Programming



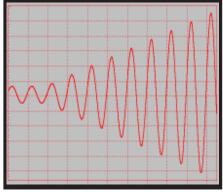
Drop transient causes output voltage to drop to zero for a user specified period



Voltage Surge transient causes output voltage to surge.



Frequency Sweep transient causes the output frequency to change at a user specified rate.



Voltage Sweep transient causes output voltage to change at a programmed rate.

# Extensive Transient Control<sup>1</sup>

With the addition of the remote control interface option, RP Series units are capable of producing transients with a high degree of user programmability. Setting up transient programs is facilitated by a Windows<sup>™</sup> Graphical User Interface program that allows amplitude, frequency and event duration to be programmed from a PC. Time resolution is 1 ms (0.001 sec) with a minimum time interval ranging from 1 to 40 ms, depending on the transient type. Maximum transient time intervals are 9999 seconds. Transient programming allows the effects of common line disturbances such as voltage surges, sags, drop-outs and frequency fluctuations on the unit under test to be evaluated.

## **Precision Measurements**

For bench or automated test equipment (ATE) applications, the 2001RP can be ordered with the -OP1 option, offering both IEEE-488 and RS232C remote control interfaces as well as extended measurements. These measurements are available from the front panel and over the bus. The 2001RP uses closed case calibration for both output and measurement calibration, lowering cost of ownership.

# **SCPI Protocol Programming Commands**

All functions of the 2001RP are programmable over the available IEEE-488 or RS232C interface. For example, the following tasks can be performed over the bus:

- Set voltage to any level
- Change frequency
- Generate voltage dropouts, sags or surges
- Measure TRMS current, peak current, crest factor, TRMS voltage, true power, apparent power and power factor
- Recall eight complete instrument setups from non-volatile memory
- Adjust current limit value
- Lock the front panel to prevent operator interference
- Switch between high and low voltage range
- Drop output voltage at specific phase angles for specified durations

# **Application Software**

Windows<sup>™</sup> application software is included with the -OP1 option package. This easy to use graphical interface program provides complete

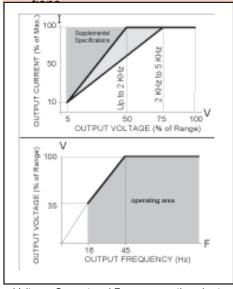
control over all instrument functions using the RS232C or IEEE-488 interface. With enhanced capabilities such as output sequencing, data logging and transient generation, many applications can be addressed without

Ele System	Source GUI - Model = 2001RP Ogtput Measurement: Applications Help II III III IV IV IV III III	
-Front Panel		- Measurements:
Yotta	[120.0	120.0 N 1082.4 N
Frag		12.010 Amis 0.771 PF
Qutin	J [12.0	29.987 Apk 2.49 CF
Earge:	Qupt Can	-Resisters Save 6
C 300 V	© 150 V C OH © ON	F Recall Exec.
Progt Panel		M California
C Locked	Peak Current _	Instruments
Ready		1/7.69 2:22 PM Simulation

the need to write softwire ows™ Graphical User Interface software included with option package OP1.

# California Instruments

Total Customer Satisfaction is the goal of all California Instruments' employees. It is the driving force behind everything we do. This not only affects the product that you purchase from California Instruments, but everything about your interface with the company. Our applications engineers are ready to assist you with your AC power application. With over 35 years of experience designing and building precision AC power supplies, chances are we can meet your needs and exceed your expectations. The same dedication to customer satisfaction you will find in our applications group also permeates our modern manufacturing facility where our products are carefully built. No unit leaves our factory without being thoroughly tested to ensure quality, reliability and conformance to specifica-



Voltage, Current and Frequency rating charts

# **Specifications**

	leter		2001RP	Unit
Controll	ler			
	Type Controls Readouts Non Volatile Setups	; (with -OP1 option)	Programmable Digital Encoders dual 4 digit LCD's 1 (8)	
Output	·	· · · · ·		
Output	AC Power Load Connection	maximum floating neutral	2000 Rear panel terminal block	VA
	Voltage	optional Un	iversal front panel sockets	
	High / Low range	(except -AV and -LZ	options) 0-300 / 0-150	V RMS
	Accuracy	16 Hz - 100 Hz 100 Hz - 5000 Hz	± 0.1 ± 0.2	% FS % FS
	Resolution		0.1	V
	Load Regulation	remote sense	± 0.1	% FS
	Line Regulation	10 % Line change	± 0.02	% FS
	T.H.D. (into a	16 Hz - 100 Hz	0.5 typ./ 1.0 max. 0.5 + 0.5 /KHz.	%
	resistive load)	100 Hz - 5000 Hz		% V rms
	Output Noise		< 0.1 typ.	V KMS
	Frequency		40 5000	Lie
	Range Std model	(see V-F rating chan 2001RP-LZ	t) 16 - 5000 16 - 500	Hz Hz
	Accuracy		± 0.02	%
	Resolution	16.00 Hz - 80.00 Hz		Hz
		80.1 Hz - 800.0 Hz 800 Hz - 5000 Hz	0.1 1	Hz Hz
	Current (see I-V rat	ting chart)		
	RMS Current	High / Low V range	6.7 / 13.4	ARMS
	Peak Current	High / Low V range	22.2 / 44.5	А
Protecti	on			
	Adj. Current limit	Resolution Modes Co	0.1 nst. Current or Const. Volt	A RMS
	Over Temperature		V	
	Over Voltage			
Input				
	Connection		Rear panel terminal block	
	Line Voltage		115 V or 208/230 V ± 10%	V RMS
	Line Current	< 35 @ 96V, <	30 @ 115V, < 15 @ 230V	A RMS
	Line Frequency		47 - 440	Hz
	Listation Theorem			
	Holdup Time	Input to Chassis/Our	10 1250 / 2200	ms
	Isolation	Input to Chassis/Ou		ms V
Measure	Isolation ements (* Requir	es Option -OP1)	tput 1350 / 2200	V
Measure	Isolation	res Option -OP1) Range Low /High	tput 1350 / 2200 4.000 / 15.00	
Measure	Isolation ements (* Requir	res Option -OP1) Range Low /High Accuracy	tput 1350 / 2200 4.000 / 15.00 0.2 % FS + 0.3 % rdng	V A RMS
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Note: Specifications shown are valid over an ambient temperature range of 25°±5°C.

# **Remote Control Option**

The 2001RP can be ordered with option package 1 (-OP1) to add a combined RS232C and IEEE-488 remote control interface. Front panel and bus measurements are included with this option.

# **Ordering Information**

#### Models:

2001RP 2000 VA rack-mount AC Source

#### **Options:** -AV

- Avionics version. All specifications equal to standard 2001RP with the following exceptions:
  - Voltage ranges: 0-115 / 0-230 V<sub>RMS</sub>
  - Frequency range: • 360 - 5000 Hz
  - Current: 17.4 / 8.7 A<sub>RMS</sub> 58 / 29 A<sub>PK</sub>
  - THD: 1.0+1.0/KHz % above 1 KHz
  - Weight: 67 lbs. / 30 Kg
- -L22 Locking knobs

2001RP Dimension drawing

- -LZ Low output impedance version, All specifications equal to standard 2001RP with the following exceptions:
  - Zo < 100 mΩ.</li>
  - Voltage ranges: 0-135 / 0-270 V<sub>RMS</sub>
  - Frequency range: 16 - 500 Hz
  - Current: 14.8 / 7.4 A<sub>RMS</sub> 49.4 / 24.7 A<sub>PK</sub>
- -OP1 Option package 1:
  - Measurements
  - IEEE-488 / RS232C Interface and GUI software
  - Remote Inhibit input
  - Function Strobe output Universal front panel
- -SKT mounted output socket
- -RMS Rack Mount Slides

## Supplied with:

- User and Programming Manual on CD ROM
- Windows<sup>™</sup> Graphical User Interface (with -OP1 option)
- RS232C Serial Cable (with -OP1 option)



# Lower Power Models

For applications requiring less than 2000 VA of output power, models 801RP and 1251RP offer lower power levels at reduced cost. These models are housed in a 3.5 inch high rackmount enclosure and require even less rack height than the 2001RP. Refer to the 801RP/ 1251RP data sheet for details.

# **Three Phase AC Source**

For applications requiring three phase output up to 667 VA per phase, refer to the Model 2003RP data sheet

# **CE Mark**

The 2001RP has been fully tested for compliance with all applicable CE Mark requirements.



0.19 [0.47]→|| POWER OUTPUT (optional) 0 0 0 1 П 19.00 [48.26] ğ 0 ET Y 0 80 ه∭∢ 22.29 156.621 3.26 1.63 RACK SLIDE ENERAL DEVICES C300S-120-B308 **Contact California Instruments:** TEL: 858 677-9040 CENTER OF SLIDE FAX: 858 677-0940 Email: sales@calinst.com Web page: http://www.calinst.com

> FAX: (858) 677-0940 Printed in the USA. 2001RPDS 03/05

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