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SPC-F005.DWG

TOLERANCES:

			REVISIONS	DOC. NO. SPC-F005 * Effective: 7/8/02				2 * DCF	No: 1398
DCF	P #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
14	53	Α	Released	JWM	9/22/03	НО	9/29/03	DJC	9/29/03
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General Specifications

Maximum voltage between any terminal and earth ground: 600VRMS

- Environmental Conditions

Installation Categories III Pollution Degree 2 Altitude Up to 2000 Meters Indoor Use Only

Relative Humidity:80% max. Operation Ambient: 0°C to 40°C

- Operation Principle: Dual Slope Integration

- **Display:**  $3\frac{3}{4}$  Digit Liquid Crystal Display

3999 Max. Reading

Automatic Indication of Functions and Symbols

- Bargraph Display: 40 Segments (resolution: 100 counts/segment)

- Range Selection: Automatic or Manual

- Over Range Indication: LCD will show a "4" flashing in the highest position accompanied by a continuous beeping. (Except for ranges of 1000A AC and 600V AC/DC)

- Low Battery Indication: The ET symbol is displayed when the battery voltage drops

below the operating voltage.

- Sampling Rate: 20 times/sec. (Barograph), 2 times/sec. (Digital Display) - Battery Life: 300 hours approx. (Alkaline)

- Polarity: Automatic polarity "-" display for negative input

- Auto-Power OFF Time: 30 Minutes

- Operating Temperature and Humidity: 0°C to 50°C [32°F~122°F]; R.H. <80 % non-condensing

- Storage Temperature and Humidity: -10°C to 60°C [14°F~140°F]; R.H. <70% non-condensing

- Dimensions: 239mm(L) x 66mm(W) x 34mm(H)

- Weight: 430 gr. approx. including battery

- Includes: Battery (one 006p 9V), Instruction Manual, Test Leads, and Carrying Case

- Jaw Opening Diameter: 46mm

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED
HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE
BELIEVE TO BE ACCURATE AND RELIABLE. SINCE
CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE
USER SHALL DETERMINE THE SUITABLITY OF THE PRODUCT
FOR THE INTENDED USE AND ASSUME ALL RISK AND
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

UNLESS OTHERWISE	Jeff McVicker	9/22/03		AC/DC	Cid
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	Daniel Carey	9/29/03	SCAL	E: NTS	

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AC Current (Autorange & Manual)

Range	Resolution	Accuracy		Frequency Response
400A	0.1A	±(2% + 10)	1100A	40 ~ 450Hz
1000A	1A		TIOUA	40~45002

Response time: 5 seconds max. to rated accuracy within selected range

DC Voltage (Autorange & Manual)

Banga	Pasalution	Accuracy	Input	Overload
Range	Resolution	Accuracy	Impedance	Protection
400mV	0.1mV		≥1000MΩ	
4V	0.001V		≃11MΩ	
40V	0.01V	$\pm (0.75\% + 2)$		660VRMS
400V	0.1V			
600V	1V			

Response time: 3 seconds max. to rated accuracy within selected range

AC Voltage (Autorange & Manual)

Range	Resolution	Accuracy	Input Impedance	Overload Protection	Frequency Response		
4V	0.001V		≃11MΩ				
40V	0.01V	±(1.2% + 5)	≃10MΩ	660VRMS	40~450Hz		
400V	0.1V			OUVRIVIS			
600V	1V	±(1.5% + 5)					

Response time: 5 seconds max. to rated accuracy within selected range

Frequency (Hz) (Autorange for Voltage)

Range	Resolution	Accuracy	Sensitivity	Overload Protection		
100Hz	0.01Hz					
1KHz	0.1Hz		100mV	660VRMS		
10KHz	0.001KHz	$\pm (0.1\% + 2)$	TOOMV			
100KHz	0.01KHz					
800KHz	0.1KHz		1V			

Frequency (Hz) (Autorange for Current)

Range	Resolution	Accuracy	Sensitivity	Overload Protection
100Hz	0.01Hz	±(0.5% + 5)	5A	1100A
1KHz	0.1Hz	±(0.5 % + 5)	JA	TIOUA

Resistance (Ohms) (Autorange & Manual)

Range	Resolution	Accuracy	Open Circuit Voltage	Overload Protection		
400 Ohms	0.1 Ohm	$\pm (1\% + 5)$				
4K Ohms	0.001K Ohm					
40K Ohms	0.01 K Ohms	±(1% + 3)	<0.5VDC	660VRMS		
400K Ohms	0.1K Ohms	<u> </u>	≤0.5VDC	660VRIVIS		
4 Megohms	0.001 Megohms					
40 Megohms	0.01 Megohms	±(1.5% + 5)				

Response time: 5 seconds max. to rated accuracy for 400 ohms to 4 Megohms. 15 seconds maximum to rated accuracy for 40Megohms

**Audible Continuity** 

Range	Continuity Beeper	Open Circuit Voltage	Overload Protection
0)))	<40 Ohms	<0.5V	660VRMS

**Diode Test** 

Range	Resolution	Accuracy	Overload Protection
<b>—</b>	0.001V	±(1% + 2)	660VRMS

Max. open circuit Voltage: 3V

Max. short circuit Current: 0.8mA (typical)

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