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SPC-F005.DWG

REVISIONS

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1453	A	Released	JWM	12/16/03	HO	9/2/04	JC	9/2/04

SPECIFICATIONS

General Specifications

1. Display: $3\frac{3}{4}$ digits LCD; max. reading 4000
2. Range Control: Auto-range control
3. Polarity: Automatic negative polarity indication
4. Zero Adjustment: Automatic
5. Over-range Indicator: "OL" displayed
6. Low Battery: is displayed if battery voltage is below 2.4V
7. Auto Power Off: After 30 minutes of no activity
8. Safety Standards: CE, EMC/LVD; meets IEC1010 Pollution Degree 2, Over voltage Category II
9. Operating Temp: 32°F ~ 104°F (0°C~40°C); Humidity: <85% RH
10. Storage Temp: -4°F~140°F (-20°C~60°C); Humidity: <95% RH
11. Power: Two "AA" batteries *(included)*
12. Dimensions: 145mm(H) x 73mm(W) x 40mm(D)
13. Weight: approx. 500g (including battery & Holster)
14. Includes: Holster, test leads, temperature probe, RS-232 cable, RS-232 software (CD)

Electrical Specifications

Accuracy is ±(% reading + number in last digit) @ (23°C±5°C <75% RH)

DC Voltage
- 400mV, 4V, 40V, 400V = ±(0.5% + 3)
- 600V = ±(0.8% + 3)
- Impedance: 10 Megohms

AC Voltage
- 4V, 40V, 400V = ±(0.8% + 3)
- 400mV, 600V = ±(1.2% + 3)
- Impedance: 10 Megohms
- Freq. Response: 40 ~ 400Hz

Temperature (Using K-type Thermocouple Probe)
- 0°C ~ 40°C: ±3°C (Built-in Temp. Sensor)
- -50°C ~ 200°C: ±0.75% ±3°C
- 200°C ~ 750°C: ±1.5% ±3°C

NOTE: When connected to the computer with RS232, a "K type" inside the sofware can be used for the nonlinear calibration which will greatly improve the accuracy of the testing, expanding the testing range to -250°C ~ 1300°C and control the nonlinear error to be within 1°C.

Resistance
- 400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ = ±(1%+3)
- 40MΩ = ±(2%+3)
- Overload Protection: 250V AC/DC RMS

DC Current
- 40mA, 400mA = ±(1.5%+3)
- 10A = ±(2%+5)
- Overload Protection: Fast 0.5A/250V, 10A/250V Fuse

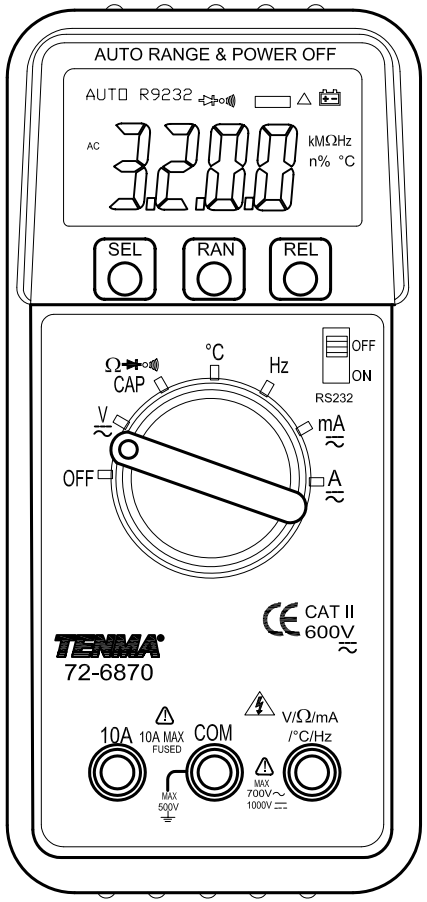
AC Current
- 40mA, 400mA = ±(2%+5)
- 10A = ±(2.5%+5)
- Overload Protection: Fast 0.5A/250V, 10A/250V Fuse
- Freq. Response: 40 ~ 400Hz

Capacitance
- 40nF = ±(3%+10)
- 400nF, 4μF, 40μF = ±(2%+5)
- 100μF = ±(3%+5)
- Overload Protection: 250V AC/DC RMS

Frequency & Duty Cycle
- Frequency: 10Hz~10MHz = ±(0.02%+1)
- Duty Cycle: 0.1%~99.9% = ±(0.02%+2)
- Sensitivity: Sine wave 0.6V RMS
- Overload Protection: 250V AC/DC RMS

Diode Test
- Test Current: 1±0.6mA; Test voltage approx. 1.5V
- Overload Protection: 250V AC/DC RMS

Continuity Test
- Audible indication: less than 60Ω approx.
- Overload protection: 250V AC/DC RMS



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TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Jeff McVicker	12/16/03
CHECKED BY:	DATE:
Hisham Odish	9/2/04
APPROVED BY:	DATE:
John cole	9/2/04

DRAWING TITLE: Autoranging True RMS DMM with RS-232

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	72-6870	25C4828.dwg	A

SCALE: NTS | U.O.M.: Millimeters | SHEET: 1 OF 1