

Model 5030DT Functional Specifications

GROUND BOND TEST MODE

Unless otherwise stated, accuracies are relative to a laboratory standard measurement.

Descriptions	Specifications
INPUT VOLTAGE	115 / 230V selectable, $\pm 15\%$ variation 47 - 63 Hz
FUSE	115 VAC, 230VAC -- 5A fast acting 250VAC
OUTPUT	Current: AC 3 - 31 Amps, 0.01 Amp / step Regulation: $\pm(2\%$ of Setting + 0.02 A) Voltage: AC 3 - 8 Volts, 0.1 Volt / step
OUTPUT FREQUENCY	50 / 60 Hz selectable
DWELL TIME SETTING	0 and 0.5 - 999.9 seconds, 0.1 second / step "0" for continuous running Accuracy: $\pm(0.1\%$ of Setting + 0.05 seconds)
FAILURE SETTINGS	High limit: 0 - 600m Ω for 3 - 12 Amps, 1m Ω / step 0 - 150m Ω for 3 - 31 Amps, 1m Ω / step Accuracy: $\pm(2\%$ of setting + 2m Ω) Low limit: 0 - 600m Ω for 3 - 12 Amps, 1m Ω / step 0 - 150m Ω for 3 - 31 Amps, 1m Ω / step Accuracy: $\pm(2\%$ of setting + 2m Ω)
MILLIOHM OFFSET	Max. Offset Capability: 100m Ω , 1m Ω / step Accuracy: $\pm(2\%$ of setting + 2m Ω)
METERING	Ammeter (4 digits) Range: 0 - 31 Amps Resolution: 0.01 Amp / step Accuracy: $\pm(3\%$ of Reading + 0.03A) Ohmmeter (3 digits) Range: 0 - 600m Ω Resolution: 1 m Ω / step Accuracy: $\pm(2\%$ of Reading + 2m Ω) Timer (4 digits) Range: 0 - 999.9 seconds Resolution: 0.1 seconds / step Accuracy: $\pm(0.1\%$ of Reading + 0.05 seconds)

REMOTE CONTROL	The following input and output signals are provide through two 9 pin “D” type connectors;
SECURITY	Password lockout capability to avoid unauthorized access to test set-up program.
LINE CORD	Detachable 7 ft. (2.13m) power cable terminated in a three prong grounding plug.
TERMINATIONS	5ft.(1.52m) high current and return leads with clips.
MECHANICAL	Bench or rack mount (2U height) with tilt up front feet Dimensions: (w x h x d) 17 x 3.5 x 16.5in. (432 x 88 x 419mm) Weight: 27.6 lbs (12.5kgs)
ENVIRONMENTAL	Operating Temperature: 32° - 113°F (0° - 45°C) Relative Humidity: 0 to 95%
CALIBRATION	Traceable to National Institute of Standards and Technology (NIST). Calibration controlled by software. Adjustments are made through front panel keypad in a restricted access calibration mode. Calibration information stored in non-volatile memory.
PROGRAM MEMORY	10 sets