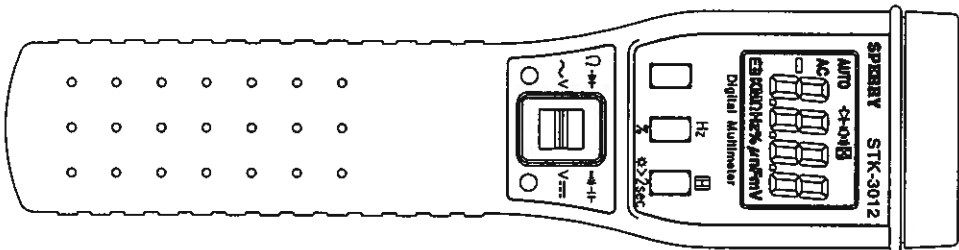


# OPERATING INSTRUCTIONS

## SPERRY STK-3012

### DIGITAL MULTIMETER

Form #293



## SAFETY INFORMATION

The following safety information must be observed to insure maximum personal safety during the operation at this meter:

1. Do not use the meter if the meter or test leads look damaged, or if you suspect that the meter is not operating properly.
2. This meter is not recommended for high voltage industrial use; for example, not for measurements of 440 VAC or 600 VAC industrial power mains. The unit is intended for use with low energy circuits to 600V AC/DC or high energy circuit to 250 VAC or DC.
3. Use caution when working above 60V dc or 30V ac rms. Such voltages pose a shock hazard.
4. When using the probes, keep your fingers behind the finger guards on the probes.
5. Measuring voltage which exceeds the limits of the meter may cause damage and expose the operator to a shock hazard. Always respect the voltage limits as stated on the meter.
6. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

## SPECIFICATIONS

Display: Liquid crystal display (LCD) with a maximum reading of 2500.

Polarity: Automatic, positive implied, negative polarity indication.

Overrange: "OL" or "OL" is displayed.

Low battery indication: The "E3" is displayed when the battery voltage drops below the operating level.

Measurement rate: 2.5 times per second, nominal.

Operating Environment: 0°C to 40°C at < 70% relative humidity.

Storage Temperature: -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.

Accuracy: Stated accuracy at 23°C ± 5°C, < 75% relative humidity.

Auto Power off: 30minutes after moving switch and push button no changes, turn the meter off then on to resume operation.

Safety: According to EN61010-1 protection class II over-voltage category (CAT II 600V) pollution degree 2.

Power: 4 pcs 1.5V (AAA size) UM-4 R03.

Battery life: 500 hours typical with alkaline.

Dimensions: 170mm (H) x 44mm (W) x 40mm (D).

Weight: 140g including batteries.

### DIODE TEST

Accuracy: ±(3.0% rdg + 3dgt).

Resolution: 1mV.

Test current: 0.25±0.2mA.

Test voltage: < 1.6V.

### CAPACITANCE

Ranges: 250nF, 2.5µF, 25µF

Accuracy: ±(5.0% rdg + 10dgt)

Overload protection: 500VDC or AC rms.

### FREQUENCY (Autorange)

Ranges: 5.000Hz, 50.00Hz, 500.0Hz, 5.000KHz.

Resolution: 0.001Hz.

Accuracy: ±(0.05% rdg + 2dgt).

Sensitivity: 1.0V rms min.

Alternating Pulse or SINE wave signal on all range.

Overload protection: 500VDC or AC rms.

### DUTY CYCLE (2Hz to 1KHz)

Ranges: 10% to 90%

Resolution: 0.1%

Accuracy: ±5dgt @ 2Vrms min Alternating Pulse signal.

Pulse Width: 50µs.

Overload protection: 500VDC or AC rms.

**PLEASE READ THESE OPERATING INSTRUCTIONS CAREFULLY**

Misuse and or abuse of these instruments cannot be prevented by any printed word and may cause injury and or equipment damage. Please follow all these instructions and measurement procedures faithfully and adhere to all standard industry safety rules and practices.

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