

Installation for Safe and Efficient Operation

For safe operation of the LSA1000 to its specifications, ensure that the operating environment is maintained within the following parameters:

Operating





- Indoor use only
- Temperature.....5 to 40 °C (41 to 104 °F)
- Humidity.....< 80 % RH non condensing
- Altitude.....< 4600 m (15090 ft)

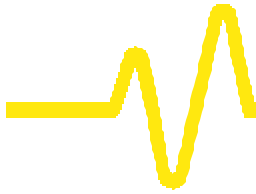
The LSA1000 has been qualified to the following EN61010-1 category:

- Protection Class.....I
- Installation (Overvoltage) Category.....II
- Pollution Degree.....2

Safety Symbols

Where the following symbols or indications appear on the instrument's front or rear panels, or elsewhere in this manual, they alert the user to an aspect of safety.

Symbol	Meaning
	CAUTION: Refer to accompanying documents (for Safety-related information). <i>See elsewhere in this manual wherever the symbol is present, as indicated in the Table of Contents.</i>
	CAUTION: Risk of electric shock.
	On (Supply)
	Off (Supply)



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Symbol	Meaning
	Earth (Ground) Terminal
	Protective Conductor Terminal
	Alternating Current Only
	Chassis Terminal
	Earth (Ground) Terminal on BNC Connectors
WARNING	Denotes a hazard. If a WARNING is indicated on the instrument, do not proceed until its conditions are understood and met (<i>see also</i> CAUTION).



WARNING

Any use of this instrument in a manner not specified by the manufacturer may impair the instrument's safety protection.

The LSA1000 has *not* been designed to make direct measurements on the human body. Users who connect a LeCroy instrument directly to a person do so at their own risk.



Power Requirements

The LSA1000 operates from a 115 V (90–132 V) or 220 V (180–250 V) AC (~) power source at 45–66 Hz, and draws 200 W max power.



No voltage selection is required, since the instrument automatically adapts to the line voltage present.

Fuses

The power supply of the LSA1000 is protected against short-circuit and overload by means of two 5x20mm“T”-rated 5 amp, 250 V AC fuses, located above the mains plug on the rear panel.

Disconnect the power cord before inspecting or replacing a fuse. Open the fuse box by inserting a small screwdriver under the plastic cover and prying it open.



WARNING

For continued fire protection at all line voltages, replace only with fuses of the specified type and rating (see above).

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Ground

The LSA1000 has been designed to operate from a single-phase power source, with one of the current-carrying conductors (neutral conductor) at ground (earth) potential. Maintain the ground line to avoid an electric shock.

None of the current-carrying conductors may exceed 250 V rms with respect to ground potential. The LSA1000 is provided with a three-wire electrical cord containing a three-terminal polarized plug for mains voltage and safety ground connection. The plug's ground terminal is connected directly to the frame of the unit. For adequate protection against electrical hazard, this plug must be inserted into a mating outlet containing a safety ground contact.

Cleaning and Maintenance

Maintenance and repairs should be carried out exclusively by a LeCroy technician (see Chapter 1). Cleaning should be limited to the exterior of the instrument only, using a damp, soft cloth. Do not use chemicals or abrasive elements. Under no circumstances should moisture be allowed to penetrate the instrument. To avoid electric shocks, disconnect the instrument from the power supply before cleaning.



CAUTION

Electric shock hazard: To avoid personal injury, do not remove covers. No user-serviceable parts inside. Leave repair to qualified personnel.

Power On

Connect the instrument to the power outlet and switch it on using the main On/Off switch, located on the rear panel followed by the



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CAUTION

auxiliary On/Off switch, located on the front panel. After the instrument is switched on, auto-calibration is performed.

Do not exceed the maximum specified signal input voltage levels (see Appendix A for details).

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