



LSC-2000

LIGHTNING STRIKE COUNTER

The **LSC-2000 LIGHTNING STRIKE COUNTER** detects, records and initiates alarms during lightning strike events.

The system consists of three major components:

- ① An outside tower mounted sensor
- ② An inside bay mounted control module
- ③ An interconnecting fiber optics cable

LSC-2000 OPERATION

The outside sensor, mounted at the base of a tower leg, detects direct lightning strikes to the tower. The data is then transmitted via the electrically non-conductive fiber optics cable to the control module.

The control module receives and processes the data then displays the strike pulse count on a numeric counter located on the front of the module. In addition, the control module can, via dry relay contacts, send a signal to your external alarm system. The alarm system records the accurate date and time of the strike event.

LSC-2000 BENEFITS

- ✓ Notifies of potential equipment problems or maintenance issues.
- ✓ Assists in forensic identification of causes of equipment damage.
- ✓ Produces a permanent record of strike events and identifies the need for upgrades.



Tower Sensor

Control Module



The unit is small, lightweight, easy to install, requires no maintenance, and through the use of fiber optics cable, provides electrical isolation between components.



TOWER APPLICATIONS

- Cellular / PCS
- Broadcast
- MW Transmission
- Digital Communications
- Any metallic structure

POWER SUPPLY

The outside tower mounted sensor requires one 3V long life battery.

Power is provided to the control module in either of two ways:

- ① 120-240V AC, 50-60 Hz, or
- ② Onsite low voltage supplied by client (10-40V AC, 10-55V DC, +ve or -ve)

The unit stores enough energy to record up to 2 lightning events over a 24-hour period following external power loss.

TECHNICAL SPECIFICATIONS

Sensor

- **Dimensions:** 108x57x75 mm (4-1/4"x 2-1/4"x3")
- **Weight:** 0.45 kg (1.0 lb)

Interconnecting Cable

- **Material:** fiber optics, plastic core with all plastic cladding and jacket
- **Dimensions:** 2.3mm dia. x required length

Control Module

- **Dimensions:**
 - Panel: 482mm (19") wide x 44.5mm (1-3/4") high
 - Chassis: 203mm (8") x 442mm (17") x 41mm (1.6")
 - Counter mounts standard 19" relay rack
- **Weight:** 1.25 kg (2.75 lb)
- **Power Supply:** 10V-55V DC, +ve, -ve, or floating, or 10-40V AC, or 115-230V AC, 50-60 Hz
- **Power Consumption:** 0.75W, max
- **Relay Interface:** dry contacts, NO, NC, and common terminals provided.
- **Ratings:** 30V or less, 1 Amp or less



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