

TECHNICAL DATA SHEET

LIGHTNING PROTECTION INTERNATIONAL PTY LTD
Comprehensive Lightning and Surge Protection ABN 11 099 190 897

- Direct Strike Protection ■ Earthing Products & Solutions
- Surge & Transient Protection for Power, Data, Communications and RF Lines



LPI® Lightning Strike Recorder - LSR-1

Features

- 7 Digits
- Up to 9,999,999 counts
- Testable using LSR-Tester

Product Description



LPI® Lightning Strike Recorder (LSR1) is a lightning event counter. The LSR1 is simply mounted at any location along the downconductor route. It's purpose is to record the number of strikes captured by the lightning terminal and conveyed by the downconductor.

The LSR1 operates by sensing current by means of an inductive pick up loop. The loop passes along the inside surface of the bottom of the enclosure. With the voltage impulse detected by the current transformer (CT) a trigger to the pulse counter then turns the counter over to register the event. The Recorder is mounted in a polycarbonate enclosure rated IP 67.

Technical Data

Ordering Code	LSR1
Description:	Lightning Strike Recorder
Current sensitivity:	1500A 8/20µs impulse
Operating range:	Min. 1500A and Max. 220kA 8/20µs
Display:	Mechanical 7 digits display (not re-settable).
Dimension:	80mm (B) x 82mm (H) x 65mm (D)
Weight:	0.4 kg
Mounting:	Adjustable stainless steel cable ties to accommodate a cable up to 40 mm dia. cable or 50mm x 5mm flat tape
Construction:	Polycarbonate enclosure
Colour:	Light Grey
Environment:	IP 67 (IEC 529)
Operating Temperature:	-15°C to 65°C

Installation/ Operating Instruction

The Lightning Strike Recorder (LSR1) can be installed at any location on the down conductor route between the air terminal and the earthing system. Where possible avoid installing the LSR1 in a position where it is exposed to direct sunlight, this can be achieved by installing the LSR1 in a suitable mounting cabinet.

Using a screw driver, fully release both clamps and pass both ends of the clamps behind the down conductor and place back into the clamp mechanisms. Tighten the clamps until the LSR1 sits firmly. DO NOT OVER-TIGHTEN.

The LSR should be mounted in line with the down conductor as shown below.

If using flat down conductor use the plastic spacer provided as per the photograph below.



Figure 1: Mounting of LSR on HVSC down conductor Figure 2: Mounting of LSR on flat down conductor

Warranty

This product is guaranteed to be free from materials and workmanship defects for a period of 5 years from the date of shipment from the manufacturer.

As lightning is a natural event containing unpredictable energy levels 100% protection is not guaranteed. These energy levels may exceed the product rating in this case the manufacturer's liability is limited to repair or replacement at the manufacturer's discretion.

This warranty does not offer any cover for consequential damage, loss of operation or loss of profit.

LPI® has a policy of continuing product development. Therefore, the above specifications are subject to change without notice.

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