

ELIT LSR-MAX

Lightning counter with 7-digit display and Bluetooth connection

Technical description

Product Description

ELIT LSR2-MAX is a lightning event counter/recorder. The LSR-MAX easily mounts anywhere along the down conductor. Its purpose is to record the number of lightning strikes intercepted by the lightning arrester and conducted by the down conductor. It works by recording current using an inductive recording loop. The loop runs along the inside of the bottom of the enclosure. This loop detects lightning current pulses on the down conductor and sends a trigger to the counter, which turns the counter to record the event. It is mounted in a polycarbonate enclosure with IP 65 rating (IEC 529). The LSR-MAX can be installed anywhere on the down conductor between the lightning arrester and the earthing system. Avoid installing the LSR-MAX in a location where it is exposed to direct sunlight, wherever possible. It is not recommended to install the LSR-MAX in pits or submerged in water. This can be achieved by installing the LSR-MAX in a suitable mounting cabinet. Mounting: Use UV-resistant plastic strips suitable for cables up to Ø40 mm. The LSR-MAX should be mounted in line with the HVSC Plus down conductor. If using a flat down conductor or a smaller down conductor, use the supplied plastic spacer. To remove or move the LSR-MAX, use a small flat screwdriver to release the clips on the locking mechanism on the cable tie. Operating temperature: -18 °C to 55 °C. Operating range: Min. 1500 A, 8/20 µs and max. 220 kA, 8/20 µs. Current sensitivity/sensitivity: 1500 A 8/20 µs. Weight: 0.56 kg.

Operating the LSR-MAX

The LSR-MAX requires no external intervention during normal operation – it will remain in a low-power state until an event occurs. Upon detection of an event, the LSR-MAX will exit this low-power state, record details of the event, store these in non-volatile memory, and then return to the low-power state.

Viewing Event Details with the LPI App

To view details of the recorded events, the LSR-MAX is triggered from the low-power state using a magnet (minimum pull force 1.0 kg - purchased separately) placed in the recessed area on the top of the enclosure (see Figure 6). It can then be scanned and discovered using the LPI app using a Bluetooth Low Energy (BLE) connection on a smart device. Once discovered in the app, click on the drop-down menu for each device to expand the device data summary.

Advantages:

- Digital lightning counter with Bluetooth connectivity
- Records over 195,000 separate events
- Measures and records date/time and peak current for each event, up to a maximum of 250 events
- Event data and battery status are easily visible and can be downloaded via the LPI app on any smart device
- Battery life of over 10 years (2 x AA batteries not included)
- All event data is stored in non-volatile memory
- Easily mounted anywhere along the down conductor
- Operating temperature: -18°C to 55°C
- Comes in an IP 66 rated enclosure (IEC 529)
- Current sensitivity: 1500 A 8/20 µs



Product name/ Art.nr/ GTIN	ELIT LSR-MAX/ 40150157/ 7070810034024
According to:	---
Mounting method	Other
Model	Other
Form of contact	Other