

Reporter SLT

Remote fault indication and conductor monitoring on underground power lines



Reporter SLT

Product features

- Remote monitoring unit for up to 12 Smart Load Tracker DFCI directional faulted circuit indicators
- Fully integrated communication solution including the 4G/LTE modem and GPS receiver
- Reporter provides access to FCI fault alarms, event and network monitoring data, e.g. conductor current and voltage
- DNP3 compliant outstation
- Bi-directional communication over highly insulated fibre optic link between Smart Load Tracker DFCIs and Reporter
- For use in underground equipment such as pad-mounted gear or vaults
- Energy harvesting via Power Harvester Unit and option for external power source
- Robust and compact design for quick installation in underground network gear
- Submersible kit for vault application (option)
- Local fault indication via 4-Way Remote Indication Display (option)

Your advantages

- Reduce outage time – remote communication of underground network fault conditions
- Ensure superior reliability and customer service – continuous network condition monitoring
- Future proof – directional fault location and load flow direction monitoring

Fast identification of fault locations enables quick service restoration and outage time reduction. The Reporter SLT is part of an innovative fault indication and monitoring system for underground power lines used for energy distribution.

As key feature the Reporter provides easy access to state-of-the-art directional faulted circuit indicators (DFCIs) that provide fault/no fault alarms and continuous readings of conductor current and voltage. In addition, the Reporter provides routine health checks as well as system status information.

The communication between Reporter and FCIs is bi-directional and runs via fibre optic links that effectively isolate a potentially hot cable section from the Reporter SLT.

The Reporter SLT converts all information into the Distributed Network Protocol (DNP3) and communicates this via a WAN (e.g. 4G cellular network) to an iHost system or any other utility SCADA system.

For installation locations without an LV power source the Power Harvester Unit can be used to power the Reporter. The Power Harvester Unit is installed on an underground power line cable and harvests energy from the line current.

For locations that may be flooded temporarily the Submersible Accessories Kit protects the Reporter.

Technical data	Reporter SLT
Optical interface	12 fibre optic input interfaces to connect up to 12 Smart Load Tracker DFCI faulted circuit indicators
Electrical interface	<ul style="list-style-type: none"> ▪ 1 digital input (for monitoring of door contact, high water alarm switch etc.) ▪ USB connector as local configuration port ▪ Antenna connector for 4G / LTE (SMA female) ▪ Antenna connector for GPS (SMA female) ▪ External connector for 4Way-Remote Indication Display (accessory)
Other interfaces	<ul style="list-style-type: none"> ▪ 4 Status LEDs ▪ Global positioning system (GPS) ▪ SIM card holder ▪ SD card slot for data logging (Micro SD, max. 32 GB)
Cellular radio options	4G / LTE Modem (AT&T, Telus, Rogers) 4G / LTE Modem (Verizon)
Power supply	<ul style="list-style-type: none"> ▪ Energy harvesting / grid powered by power harvester (accessory) ▪ External by 120 V AC power supply (accessory) ▪ External by USB for configuration and testing ▪ Rechargeable battery backup for communication during outages / low load periods
Environmental	<ul style="list-style-type: none"> ▪ Operating temperature: -40 to +85 °C ▪ IP65 ▪ Fully submersible application: use the Submersible Accessory kit
Mechanical specification	<ul style="list-style-type: none"> ▪ Housing material: Polycarbonate ▪ Size (L x W x H): 9.1" x 4.8" x 2.5" (231 x 121 x 63 mm) ▪ Weight: 4.4 lbs. (2.0 kg)
Mounting	<ul style="list-style-type: none"> ▪ Magnetic set (included) ▪ Housing has 6 holes for wall mounting, size 2 x 0.33" (8.5 mm) + 4 x 0.2" (5 mm)

Equipment set	Accessories	Order no.
1 Reporter SLT	4-Way Remote Indication Display	49-0708-000
Reporter SLT (AT&T, Telus, Rogers)	Submersible Accessories Kit	49-6005-003
Reporter SLT (Verizon)	Power Harvester Unit	49-6100-000
3 – 12 Smart Load Tracker DFCI	External Power Supply (120 V AC)	49-7922-000
Smart Load Tracker DFCI (CT + M + T 4h)		
Smart Load Tracker DFCI (M + T 4h)		
3 – 12 Smart Fibre Optic Cable (20 ft)		