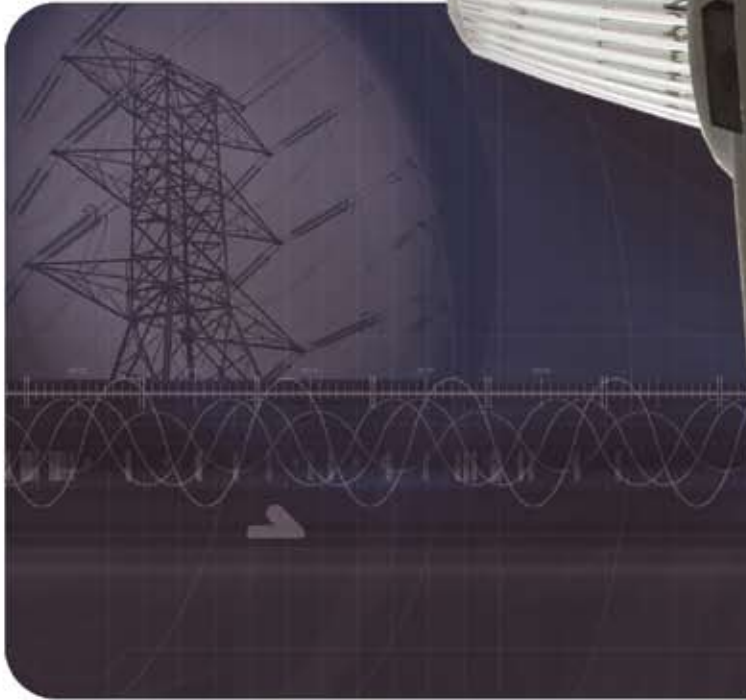


# LineTracker<sup>systems</sup>

## Pole Mounted Fault Monitoring Solution

LT30-PMS  
LT40-PMS

- Reliable Fault Indication
- Time Stamped Fault Records
- Wireless Downloading
- Solar & Battery Powered
- Remote Notification



**The self-powered LineTracker Pole Mount System (PMS) detects, classifies, logs and visually identifies faults on overhead distribution networks and assists electricity utilities with:**

- Rapid line restoration through accurate fault detection indication
- Post event analysis with fault description and time stamp data reports
- Troubleshooting momentary interruptions, finding the cause of the fault
- Outage Management support with a real-time SCADA alarm interface
- Improvement of network reliability and power quality

**GridSense<sup>™</sup>**

T&D Solutions Since 1974

The LineTracker Pole Mounted System incorporates adaptive fault triggering algorithms that compare changes in both the electromagnetic and electric fields from the distribution line to accurately detect a variety of faults.

1. Sensing & detection

2a.

2b.

Local on-site wireless communications

3. Optional remote communications

4. Intuitive viewing & analysis tools

1. **Sensing & Detection:** Fault detection, logging and indication
2. **On-site Wireless Communications:**
  - a. LT30PMS, Infra-red handheld used to configure, download and view events.
  - b. LT40PMS, LT-DataLINK radio transceiver used to configure and download events.
3. **Remote Monitoring:** Fault contact relay output (RS232 ) for connection to a Remote Terminal Unit (RTU) or cellular modem.
4. **LineView Viewing and Analysis Software:**
  - a. LT30PMS, Export event data to excel for post event and analysis
  - b. LT40PMS, LineView analysis software provides graphical and tabular viewing of LT40 download files.

<b>Network Installation</b>	Overhead 3 Wire , single or 3 phase radial distribution lines
<b>Line Voltage</b>	Up to 69kV Phase-to-Phase
<b>Fault Detection Range</b>	Phase-Ground and Phase-Phase faults from 10amps to 25,000 amps
<b>Fault Trigger Principle</b>	Algorithms based on electromagnetic current and electric field ratios with adaptive sensing filters that auto adjust to the line signature (load and voltage history) with fault and inrush discrimination
<b>Visual Indication</b>	Xenon Strobe, high intensity Red and Amber LED
	Xenon Strobe fault indication, flash every 4 (day) or 8 (night) seconds
	Red LED Transient & Self-Clearing fault indication, flash every 10 seconds
	Amber LED Device & Line Status indication, flash every 30 seconds
<b>Fault Indication Reset</b>	On successful line restoration and / or timed reset programmable from 1 hour to 4 weeks
<b>Event Record Data</b>	Event Type (Permanent, Transient and Self-Clearing), date/time, fault ratios, duration, cycles to trip, number of trips, and device health data

5 years

Power Source	0.5W solar cell
Operating Temperature Range	-20°C (-4°F) to +80°C (+176°F)
Housing Material	Foam Luran S, IP68 weatherproof rating
Dimensions	280x200x240mm, 11"x8"x9" (LxWxH)
Weight	3kg (6.6lbs) shipped weight