

# Sagometer — Smart, no hassle thermal rating



*For reliable and accurate  
monitoring of overhead  
conductor clearance.*



## Benefits

- Rate lines dynamically
- Enhance static line ratings
- Alleviate constrained-line restrictions and associated penalties
- Defer line upgrades for a fraction of the associated construction costs
- Tabulate high-temperature operation for conductor end-of-life analysis

## Smart Technology

The core technology of the Sagometer is a "smart" machine-vision camera that captures the image of a target attached to the conductor and then calculates ground clearance. Near-IR illumination enables nighttime monitoring, thus providing accurate measurements twenty-four hours a day during all but the most inclement weather.

## Weather Station

The Weather Station, in combination with the Sagometer or in stand-alone mode, provides further rating information needed for:

- Averting forced outages in contingency situations
- Validating and/or modifying static line ratings
- Providing dynamic line ratings
- Determining impacts of line loading
- Evaluating design criteria
- Establishing baselines for ambient conditions



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## Simple to Install, Easy to Use

The Sagometer is designed for convenient relocation from span to span or line to line. Such design features include:

**Quick and Easy Installation** – Modular components, complete attachment hardware and mil-spec connections allow easy installation in four hours or less.

**No Outage Required** – The target can be attached to an energized line and the remaining components are attached to the structure at a safe working distance from the energized line.

**Mount to any Type of Structure** – All hardware is provided for attaching to a pole or latticed structure.

**Autonomous Operation** – Measurements begin immediately after power is applied.

**Simple Calibration** – The Sagometer requires one survey measurement that can be done any time after installation; weather sensors arrive fully calibrated.

**Flexible Power Supply** – Photovoltaic (solar) power is recommended for reliability and ease of installation, however AC power can be used if desired.

## Field-Proven Design

Years of operating experience with many utilities has resulted in a rugged, reliable and ready system that meets the utility industry's line rating needs. Sensors and equipment are purchased from leading manufacturers that have been thoroughly tested by reliable and independent end-users.

## Installation Assistance and Warranty

EDM provides optional on-site installation assistance, ensuring a quick-and-ready installation, providing valid data for years to come. The Sagometer includes a one-year full-service warranty. Optional extended warranty packages can be purchased.

## Communicate over SCADA...

Communicate with the Sagometer on SCADA using DNP or Modbus via Local Spread-Spectrum Radio or Fiber Optics.

EDM provides free HMI software for remote or local configuration and monitoring.

## ...or Communicate Independent of SCADA

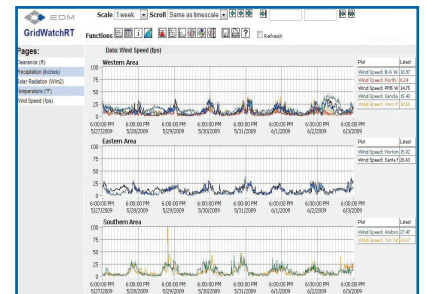
The Sagometer can also communicate over satellite or cellular internet.

## Powerful Data Processing

The Sagometer provides data for a variety of line rating software programs and services including:

**GridWatchRT** – EDM provides GridWatchRT, a web-based data service, for Sagometer users not retrieving data through their SCADA systems. Available via any web browser connected to the Internet, GridWatchRT retrieves, displays and archives Sagometer and Weather Station data on a real-time basis.

**DTCR** – EPRI clients may feed Sagometer and Weather Station data directly into DTCR, the dynamic rating software program developed and sold by EPRI.



**PLS-CADD Line Rating Module** – The PLS-CADD Line Rating Module uses Sagometer and Weather Station data, along with load current, to create an interactive model for analyzing conductor behavior.

The Sagometer development was sponsored by EPRI and the California Energy Commission.



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