

MegaMet

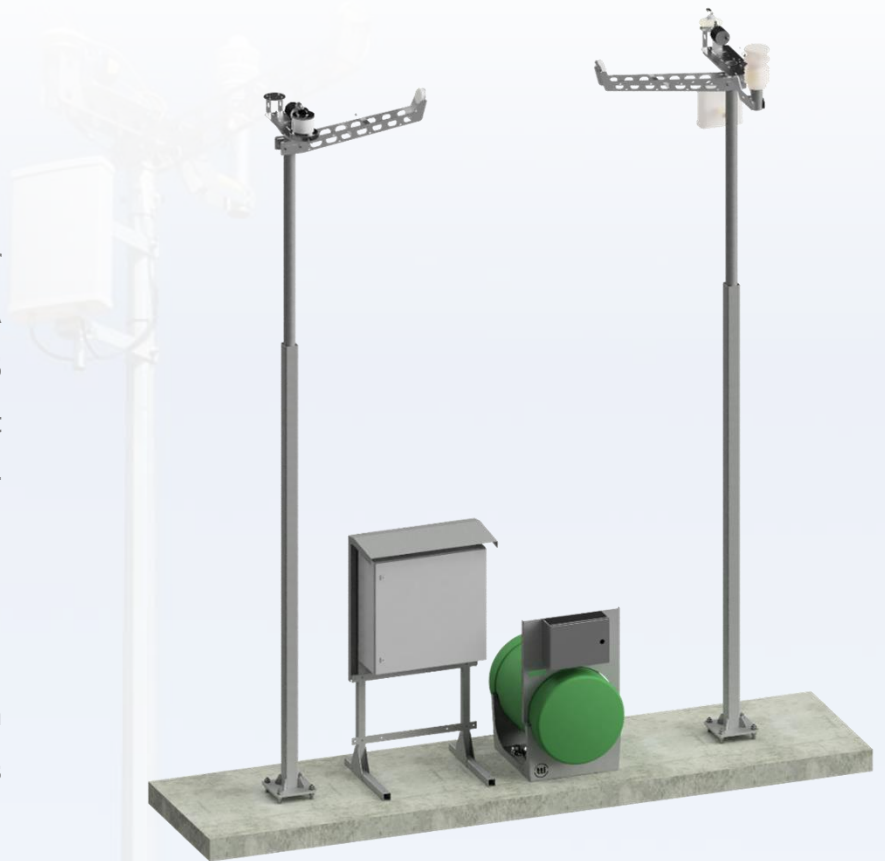
Utility-Scale Solar Photovoltaic Weather Station



Proa's weather stations are designed and built to go beyond the standard requirements.

MegaMet was specifically developed for utility-scale solar farms with SCADA operations supported by MODBUS protocols and is customizable to almost all types of communications such as RS-485, cellular or satellite.

With a wide variety of sensors, a full range of options and Proa's IP owned unique features, each **MegaMet** unit can be customised to suit any project's characteristics.



Reliable

Robust

Smart Operation

Customizable

Accurate

Common Measurements

- | | | |
|---------------------------------|----------------------|----------------------------|
| Horizontal Irradiance | Ambient Temperature | Wind Direction |
| Front Plane-of-Array Irradiance | Relative Humidity | Rainfall |
| Back Plane-of-Array Irradiance | Atmospheric Pressure | Back-of-Module Temperature |
| Albedo Ratio | Wind Speed | Soiling Ratio |

Unique Features



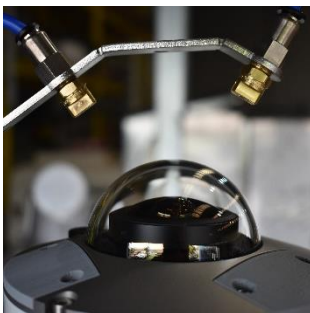
Bird Deterrent System - **MetProtect**

A sensor based in micro-waves detects birds or other types of wildlife and deters them by the activation of a mechanical device, avoiding unwanted traces on the sensors.



Multiple Mounting Possibilities

Proa has designed multiple ways to mount the weather stations in a robust way according to the needs or constrains of each project.



Self-Cleaning System - **MetProtect**

An automatic self-cleaning system with demineralized water is automatically activated between sunset and sunrise, avoiding human intervention to keep the sensors clean.



Additional attributes

- ✦ Integration of *Skycams* for short-term (up to 35 minutes) weather forecasting
- ✦ Instrument mounting options including mining spec galvanized hinge poles or custom galvanized telescoping poles depending on height required
- ✦ All cabinets are 316 stainless steel, IP66 rated, mounted to custom designed galvanized steel stands and brackets
- ✦ Integrated **MetProtect** System utilizes agricultural standard equipment in conjunction with custom firmware and galvanized bracketry for reliable performance
- ✦ 24/7 System functionality monitoring with alarms and notifications in case of failure