# ReadyMount™ MET Station

Engineered for rapid deployment and seamless integration on utility-scale solar projects.

Terabase Energy's ReadyMount™ MET Station is the easiest to deploy meteorological station on the market and is available with Terabase's standard SCADA packages or as a standalone product.

Refined across more than one hundred field deployments, the ReadyMount MET station ships pre-assembled and pre-configured, enabling error-proof installation in just a few hours. Direct pile mounting eliminates the need for special welding, while pre-organized and labeled components streamline the setup process.

The ReadyMount MET Station is fully customizable and compatible with multiple SCADA applications and hardware platforms. It's designed for rapid integration, allowing for quick startup and commissioning by either Terabase's engineering experts or your own team.
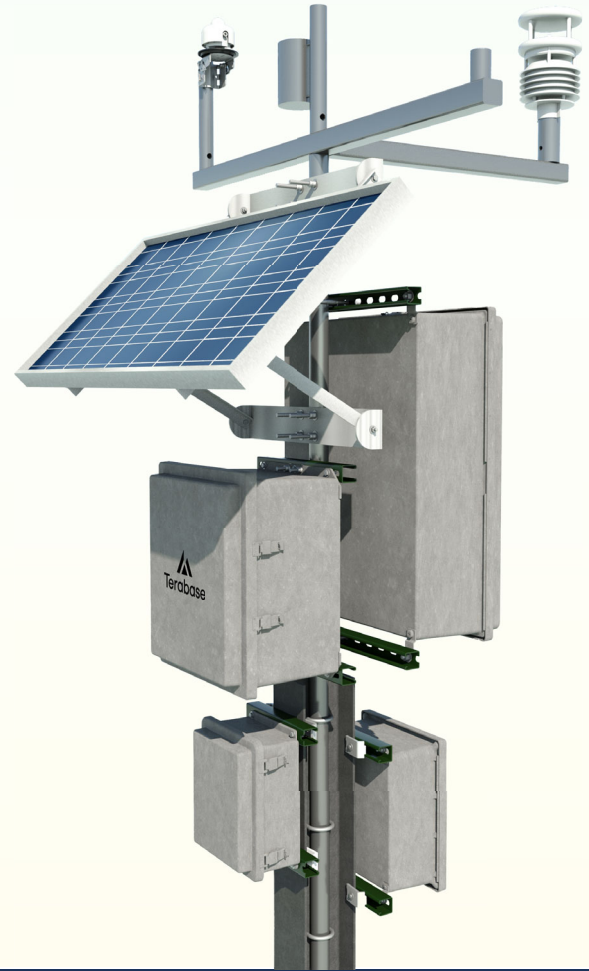
Key Features

Wide Sensor Support:
Supports a variety of analog and serial communication and network-based sensors.

High Sampling Rate:
5-second sampling data logging.

SCADA Platform Support:
Universal support for SCADA platforms.

Scalable I/O Functions:
Supports RTD, DI, DO, AI, and AO functions.

Industry Specification:
Designed to meet IEC 61724

Protocol Compatibility:
Supports industry standard protocols including TCP/IP, Modbus, DNP3, and MQTT

Networking:
Supports independent data path to central SCADA system with support for additional field devices.

Remote Access:
Web server for LAN networks.

FTP Services:
Optional.

Reduced Assembly & Installation:
Components ship pre-assembled.

Direct Pile Mount:
No special welding or complicated installation procedures.

Easier Site Logistics:
All components come preorganized and labeled for quick installation.

ReadyMount™ MET Station: Technical Specifications

STANDARD MEASUREMENTS

Irradiance	GHI, POA, and RPOA irradiance using Spectrally Flat Class A pyranometers
Reference Irradiance	+/-2% @ 1000 W/m2 with filters for different module technologies
Ambient Temperature	+/-0.2° C in a range of -50°C to +60°C. Resolution of 0.1°C
Humidity	+/-2% Relative Humidity in a range of 0 to 100% Relative Humidity
Air Pressure	+/-0.5 hPa in a range of 300 to 1200 hPa
Wind Speed	+/-0.3 m/s or ±3 %, +/-5% RMS
Wind Direction	<3° RMSE
Precipitation	+/-1% per hour with 0.01" resolution
Back Of Module Temperature	+/-0.3°C (Resistance Temperature Detector)
Module Soiling	Optical soiling with +/-1% Transmission Loss. No Maintenance Required
IV Curve Tracing	+/-0.3% Current Accuracy up to 30A, +/-0.3% Voltage Accuracy up to 250V

OPTIONAL MEASUREMENTS

Direct Normal Irradiance	Class A spectrally Flat Pyrheliometer or Sunshine Pyranometer
Diffuse Horizontal Irradiance	Class A spectrally Flat Pyranometer or Sunshine Pyranometer
Albedo	Spectrally Flat Class A Reflected Horizontal Irradiance measurement
Hail	+/-10% Kinetic Energy and Pellet Equivalent Diameter
Visibility	5m to 100km range with varying accuracy

ELECTRICAL SPECIFICATIONS

AC	Nominal system voltage: Input frequency:	100-240VAC 50/60Hz
DC	Nominal system voltage:	12VDC/24VDC
Battery System	Nominal voltage: Capacity:	24VDC Scaled to Site Requirements
Solar Panel	Nominal voltage: Operating current:	12V 5A

COMMUNICATIONS

Ethernet Ports	4 Standard, Expandable
Fiber Port	1 Gbps Standard, 100 Mbps Optional

MEMORY

On-Board RAM	4 MB SRAM + 72 MB Flash
Memory Card	16 GB

REAL-TIME CLOCK

Battery	Rechargeable Lithium
Network Time Protocol	With site NTP Server

ENVIRONMENTAL CONDITIONS

Operating Temperature Range	-40° to 70° C
NEMA Rating	4
Maintenance	Maintenance Free