



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

Data Storage:

1+ Year Data Retention

Battery Runtime:

2 Days Minimum

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)
IV Curve Tracing	+/-0.3% Current Accuracy up to 30A, +/-0.3% Voltage Accuracy up to 250V

OPTIONAL MEASUREMENTS

Module Soiling (A)	IEC 61724: In-situ I-V Measurement w/ Clean & Dirty Reference Modules
Module Soiling (B)	Maintenance Free: In-situ I-V Measurement w/ Optical Soiling Sensor & Reference Cell
Direct Normal Irradiance	Class A spectrally Flat Pyrhemometer 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: 100-240VAC Input frequency: 50/60Hz
DC	Nominal system voltage: 12VDC/24VDC
Battery System	Nominal voltage: 24VDC Capacity: Scaled to Site Requirements
Solar Panel	Nominal voltage: 12V Operating current: 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/IP Rating	NEMA 4X certified / Meets or exceeds IP66
Maintenance	Maintenance Free