



## AE Commercial Monitoring Solutions

A commercial PV system represents a significant investment for the system owner. This investment needs to be recouped over time by maximizing energy production. Data monitoring is an essential part of achieving maximum energy production. Advanced Energy offers a complete line of commercial PV system monitoring hardware built using the same reliability and design philosophies as our inverters while providing our customers with software choice from the industry's leading monitoring providers.

### Integrated Hardware + Software Choice

AE's TX line of inverters can be ordered and shipped with integrated performance monitoring hardware that enables connectivity to a variety of software solutions from our industry leading monitoring partners. This revolutionary approach simplifies the monitoring selection and configuration process. The tight integration between Advanced Energy and our monitoring partners creates a superior service and support experience while delivering seamless and meaningful data. Factory integration and testing of our UL listed monitoring solution ensures high reliability and significantly reduces field installation costs.

### Choose from Industry-Leading Monitoring Partners:

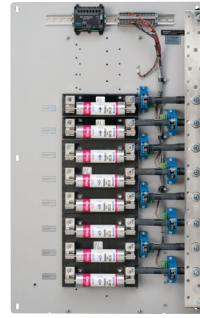


### Factory Integrated AE Hardware

- Save installation costs
- Turnkey solution
- Plug and play connectivity
- Backed by AE Service and Support

### Premium Site Monitoring

- Comprehensive - Whole site solutions
- Choice - Validated 3rd party software providers
- Open - Modbus communications
- Support - Application engineers and AE Service



Integrated Monitoring Gateway

Integrated Revenue Meter

Integrated Subcombiner Monitor

### Integrated Monitoring Gateway Specifications

General	
Type	Inverter Integrated UL-listed assembly
Gateway	Obvius EMB A8810
Field Device	Up to 32 modbus slave devices
Field Communications	Modbus via RS-485 or TCP
LAN	RJ-45 10/100 Ethernet Port
Data Storage	16 MB Flash
Data Logging	User Selectable from 1 to 60 minutes (default 15 min)
Available Field Power	24 VDC, 60 W
Warranty	5 years

### Integrated Revenue Meter Specifications

Meter	
Make	Electro Industries
Model	Shark 100 (100S for 35/50k)
Class	ANSI C12.20 (0.2% Accuracy), IEC 687 (0.2% Accuracy)
Communications	Modbus RTU or TCP (100S only)
Display	Bright red LED, Lockable weather tight cover

### Integrated Subcombiner Monitoring Specifications

Inverter	AE 75TX / AE 100TX			AE 250TX / AE 260TX				AE 500TX	
Maximum # of Input Circuits	3 (Fuse)	5* (Fuse)	6 (Fuse)	8 (Fuse)	16 (Fuse)	6 (DC breakers)	9 (DC breakers)	8 (DC breakers)	16 (DC breakers)
Maximum Total Fuse or Breaker Rating (A)	675	675	675	1600	1600	1600	1600	3200	3200
Maximum OCPD per Circuit (A)	200	200	100	200	100	400	225	400	225
Maximum DC Voltage Input	600 VDC								
CT Current Rating (A)	200	200	100	200	100	400	300	400	300
Communications	Modbus RTU								

\* Available only on the AE 100TX

### 24 V Option

Specification	AE 35TX, AE 50TX, AE 75TX, AE 100TX, AE 250TX, AE 260TX	AE 500TX
Voltage	24 VDC	24 VDC
Wattage	70 W	240 W
Fuse rating	3 A	10 A

Subject to change without notice. Refer to user manual for detailed specification.

### Benefits

- Maximize energy production
- Select preferred monitoring provider
- Quickly identify performance issues
- Save time and cost

### Features

- Factory integrated hardware
- Modbus communications
- Web-based configuration
- UL listed



AE Solar Energy • 115 Nicholson Lane • San Jose, CA 95134 U.S.A.  
[www.advanced-energy.com/solarenergy](http://www.advanced-energy.com/solarenergy)  
 877.312.3832 • [sales.support@aei.com](mailto:sales.support@aei.com) • [invertersupport@aei.com](mailto:invertersupport@aei.com)  
 Please see [www.advanced-energy.com](http://www.advanced-energy.com) for worldwide contact information.

© Advanced Energy Industries, Inc. 2013  
 All rights reserved. Printed in U.S.A.  
 ENG-CommDataMon-250-07 9/13