

Smart Energy Metering Solutions For The Global Utility Industry



www.transdatainc.com

MARK-V EMS60 Smart Grid Energy Meter



✔ Smart Grid Certified

Key Features

- ANSI and Measurement Canada Revenue Certified
- 4-Quadrant Bi-Directional Solid-State Energy Meter
- 4 or 8 Channel Load Profile Data Recorder
- $\pm 0.06\%$ Load Range Accuracy - ANSI C12.20 Report
- -40°C to $+85^{\circ}\text{C}$ Operating Range (Including LCD)
- Real-time Transformer and Line Loss Compensation
- Advanced 20-year LiRAM Memory, No Batteries to Maintain or Replace
- Event Recorder System with Power Quality Monitoring, Outage Reporting and Site Analysis

Communications

- DNP 3.0 and Modbus (TCP/IP, RTU) SCADA Protocols
- Ethernet, Digital Cellular Broadband, RS232/RS485, Telephone Modem Telemetry Options

The Definitive Smart Grid Metering Solution

More than just a meter...the MARK-V is a comprehensive energy metering system that integrates interval usage recording, power quality monitoring, time-of-use, remote communications and more into a single device.

Purchased by more than 400 leading global electric utilities, energy service providers and independent power producers, TransData's MARK-V Energy Meters are utilized for a wide variety of commercial and industrial, substation, generation and ISO-Grid applications.

With its powerful combination of advanced energy measuring and integrated communications technologies, the MARK-V Meter is the definitive solution for today's smart grid metering applications that require real-time data to support Demand Response and Load Curtailment programs being introduced at many utilities as demand side management and energy conservation initiatives.

Renowned for their exceptional accuracy and reliability performance, the MARK-V Meter is fully manufactured and tested to exacting quality control standards at our factory in Dallas, Texas.

Smart Meter - Wireless Under-Glass Communications

Purchased by more than 70 leading utilities, the MARK-V was the world's first digital energy meter equipped with under-glass wireless communications allowing remote access of billing and usage data on wireless networks operated by Verizon, Sprint and TELUS.

Ideally suited for installation on commercial and industrial accounts; the MARK-V's internal digital cellular module features IP addressable 3G packet-data or dial-up circuit-switched data telemetry modes to perform remote billing data retrieval, real-time energy monitoring, site diagnostics and meter programming changes.

SSR-6000 Interval Data Recorder



✔ Smart Grid Certified

Key Features

- Advanced 20-year LiRAM Memory
- Digital Cellular, Ethernet, Telephone Modem Wi-Fi and RS232 Communications Options
- Scalable Pulse Input Channels
- Switch Selectable 120-240-277 Volts AC Power Supply
- Multi-Level Password Protection Supports Advanced Metering and Read-Only Applications
- Optional LCD Display with Detailed Enunciators
- Event Recorder System with Dial-Out Event Reporting

The SSR-6000 is a solid-state interval data recorder used for collecting, profiling, totalizing and communicating up to 8-channels of pulse data received from electricity, gas and water meters. Designed with advanced capabilities, the SSR-6000 can be utilized in a wide range of pulse data recording applications while providing a secure data back-up point for critical revenue metering installations.

The SSR-6000 features a switch selectable 120-240-277 VAC power supply and cover-mounted optical port. Remote data retrieval and programming can be accomplished through its integrated wired and wireless telemetry options which include: digital cellular, Ethernet, telephone modem, Wi-Fi and RS232 serial. An available pulse I/O option provides additional status, alarming and control functions with the capability of providing a totalized pulse output.

The SSR-6000 accepts four Form-C KYZ (3-wire) pulse inputs or eight Form-A KY (2-wire) inputs with programmable 1 to 60 minute fixed or rolling block demand interval periods. The advanced LiRAM memory provides ample data storage capacity for load profile recording applications.

The SSR-6000 is the first and only interval data recorder available with multi-level password protection and integrated digital cellular, Ethernet and Wi-Fi communications.

2130 Automated Meter Test Bench



- Internal $\pm 0.025\%$ Multifunction Reference Standard
- KWh, KVARh, KQh, Volthours, V2h, Amphours and A2h Accuracy Testing
- Computer Controlled with Menu Driven Test Routines

Introduced in 1991, the TransData Model 2130 is the industry's first fully automated, computer controlled portable meter test set designed for on-site testing and revenue accuracy certification of electricity meters.

With the 2130, an electricity meter installation can be fully tested and revenue certified within a matter of minutes. The 2130's internal current and voltage sources are precision regulated to provide extremely stable signal levels during testing that are not prone to fluctuation with variations of the power supply voltage. Enhanced source stability provides extremely precise and repeatable test results, especially on transformer and line loss compensated meter installations.

The 2130 utilizes industry preferred "active testing methodology" with built-in precision current and voltage sources that provide pure 0-30 amp and 0-600 volt sine wave signals to the meter under test and internal multifunction reference standard. Active technology is the preferred methodology for testing ANSI revenue meters and an extension of industry established, NIST-traceable test procedures performed by meter manufacturers and modern utility meter shops.

Electrical Power Transducers



TransData electrical power transducers are used in a variety of Distribution Substation, Generation and Industrial applications for measuring AC and DC power quantities and providing real-time analog signals and/or KYZ pulse data to SCADA and Energy Management Systems.

TransData power transducers are precision engineered to exacting standards utilizing the finest materials and components to provide superior accuracy and long-term reliability performance. Our transducers are direct pin-for-pin wiring compatible with other brands and feature a utility specified steel enclosure with standardized mounting footprint.

When you specify TransData transducers, you're getting the absolute best quality and value available in the marketplace.

Metering Isolation Relays



Key Product Features

- Surge Protection for Metering Installations with Hardwired Pulse Inputs and/or Outputs
- Solid-State and Mercury-Wetted Models Available
- Ideal for Commercial-Industrial, Substation and Generation Applications

TransData Metering Isolation Relays provide surge protection for energy metering installations with hardwired pulse data streams by electrically isolating the pulse input/output wiring path to protect electricity meters, network components, energy management systems and recording devices from damage typically caused by transmitted or induced electrical surges.

For specialized energy metering applications, the IB6 Isolation Relays have the ability to replicate (split) a single pulse initiator input into two or three pulse output data streams for multiple device monitoring or recording of energy data.

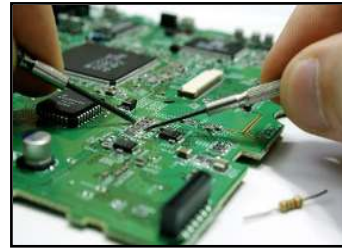
TransData Metering Isolation Relays are highly recommended for use at metering installations in lightning prone areas and for use in substations with poor grounding characteristics.

TransData, Inc.

- Measuring Today's Energy



TransData Headquarters – Carrollton, Texas



All TransData Products are Proudly Manufactured and Tested in the United States of America

The Leading Designer and Manufacturer of Innovative, Smart Grid Energy Metering Technologies for Utilities and Industry Since 1969...

TransData is a leading manufacturer of precision power and energy measuring products with headquarters in suburban Dallas, Texas.

Since our establishment in 1969, TransData has been actively engaged in the design and manufacture of advanced, solid-state energy meters and related products that enable our global client base to more efficiently measure, monitor and control complex electrical loads on the smart grid.

TransData stands as the most experienced and longest continuous-running manufacturer of solid-state energy metering products serving the electric utility industry.

TransData energy metering products are based upon best practices and offer an unparalleled breadth of functionality and flexibility to support the diverse needs of our global utility client base. Customers realize relationship value through our innovative product offerings, robust machine-to-machine (M2M) data communication solutions and exemplary in-house technical support after the sale.

More than 2000 customers in over 30 countries worldwide including all of the top 50 largest U.S. electric utilities rely on TransData's precision energy metering products for delivering accurate energy metering and system load data.

Representative Clientele



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