# Leading the Digital Transformation of the North American Electricity Grid





### **MARK-V EMS60 Digital Revenue Energy Meter**





### **MARK-V Key Product Features**

- ANSI C12.1, ANSI C12.20, California ISO MTR 1-96 and Measurement Canada Certified Revenue Electric Meter
- ±0.06% Load Range Accuracy
- -40°C to +85°C Operating Range
- DNP3/Modbus Real-Time SCADA Data Telemetry
- Load Profile Data Recording
- Power Quality Monitoring System with Event Recorder
- Transformer and Line Loss Compensation
- 20-year LiRAM Memory, No Batteries to Maintain
- Outage Detection and Reporting
- Site Analysis with Real-Time Vector Diagram
- Telephone Modem and Pulse Input-Output Options

### Advanced U-Com2 Telemetry Module Supports Multipath Billing and SCADA Communications

- 10 Port Ethernet, Multi-user Addressable
- 4G LTE Dual SIM Digital Cellular Verizon and AT&T
- Optional Secure DNP3 Non-Routable Ethernet Port
- 4 RS232/485 Serial Ports

#### **Advanced Revenue Metering Applications**

- Power Generation
- Digital Substations
- Distributed Energy Resources Wind, Solar Energy, Battery
- ISO Transmission Grid
- Electric Utility Inter-Tie
- Industrial AMI Revenue Metering

### The Definitive Advanced Revenue Metering Solution

Purchased by more than 500 electric utilities, power producers and government agencies; the MARK-V Digital Energy Meter is a high accuracy, grid certified energy metering system equipped with bestof-class features and functionality required for for today's advanced bulk power and AMI revenue metering applications.

The MARK-V's U-Com2 telemetry module provides unrivaled communications flexibility to meet challenging real-time, multipath data telemetry requirements from grid operators and other monitoring entities. The U-Com2 telemetry module enables multiple authorized users to simultaneously access accumulated meter register data and real-time DNP3/Modbus SCADA data using any of meter's wired or wireless communication ports.

For communications outside the utility's secure ring perimeter, the U-Com2 can be equipped with non-routable Ethernet port.

Renowned for their exceptional accuracy and long-term reliability performance, MARK-V Meters are fully manufactured and tested to exacting quality control standards at our factory in Dallas, Texas.

Ideally suited for AMI applications on commercial and industrial accounts; the MARK-V's internal 4G LTE digital cellular module performs remote billing data retrieval, real-time energy monitoring, site diagnostics and meter programming changes and is compatible with MV-90 and Primestone data collection software.

### **ABACUS<sup>®</sup> ANSI Optical Communication Probes**



TransData's ABACUS A9U and A6Z ANSI Type 2 optical probes featuring either a USB or DB9 computer interface and magnetized head that attaches to the metal "D" ring on ANSI electric meters for obtaining meter data, performing site diagnostics and making programming changes.

ABACUS Optical Probes utilize infra-red LED's to provide a galvanically isolated, bi-directional communications link between computers and ANSI electric meters. The ABS plastic head shell protects users from electrical surges when connecting to hard-wired optical ports and accidental contact with live potential wiring in the meter cabinet.

ABACUS Optical Probes with the blue cable are Windows 10 and 11 compatible. USB models utilize the Windows update feature to automatically download drivers into the PC. Abacus Optical Probes are renowned throughout the utility industry for their superior reliability and capability of interfacing with the widest variety of ANSI electric meter brands.

TransData acquired the ABACUS Optical Probe product lines from Abacus Electrics of London, England in 2020 and relocated production to our factory in Dallas, Texas.

### **Electrical Power Transducers**



Models Available For Measuring; Watts, VARs, Watt/VAR, Amps, Volts, Frequency, Power Factor, Phase Angle, Watthours, Varhours and DC Volts In production since 1969, TransData's utility-grade Electrical Power Transducers are used for measuring various AC and DC power quantities in substations and power generation applications. TransData transducers accept AC current and voltage inputs from CT's and PT's and provide a real-time 0-1mA or 4-20mA analog signal to SCADA RTU's and Energy Management Systems.

TransData's transducers are precision engineered utilizing military-grade components that provide the superior accuracy, rock solid stability and long-term reliability performance. For use at bulk-power applications requiring NERC CIP data security compliance, our transducers feature discreet CMOS analog circuity that cannot be compromised by hackers.

TransData's Electrical Power Transducers are direct pin-for-pin compatible with other brands and feature the electric utility required all-steel enclosure with standardized mounting footprint.

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

## SSR-6000 Interval Pulse Recorder/Pulse Totalizer



#### **Key Features**

- Ethernet, Telephone Modem and RS232 Options
- 8 Scalable Pulse Input Channels
- Advanced 20-year LiRAM Memory
- Switch Selectable 120-240-277 Volts AC Power Supply
- Optional LCD Display with Detailed Enunciators
- New York State Revenue Approved

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

The SSR-6000 is housed in a weathertight NEMA 3R enclosure and features a switch selectable 120-240-277 VAC power supply and covermounted ANSI optical port. Remote data retrieval and programming are accomplished through its internal telemetry options which include: Ethernet, telephone modem and RS232 serial port. 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 up to four Form-C KYZ (3-wire) pulse inputs or eight Form-A KY (2-wire) inputs with scalable pulse weighting and programmable 1 to 60 minute fixed or rolling block demand interval periods.

## **Metering Pulse I/O Isolation Relays**



#### **Key Features**

- Surge Protection for Metering Installations with Hardwired Pulse Inputs and/or Outputs
- Solid-State Pulse Outputs
- 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.

# **V TRANSDATA®**



TransData Factory – Dallas, Texas

All TransData Metering Products are Designed, Manufactured and Tested in the United States of America

### TransData, Inc. Corporate Profile

A recognized industry leader for over 50-years, TransData specializes in the design and manufacture of advanced power & energy revenue metering products and AMI data telemetry technologies used by electric utilities, power producers and government agencies to more accurately measure, monitor and control the flow of power being generated and distributed on the grid.

More than 2000 customers including the 50 largest U.S. electric utilities rely on TransData's power & energy metering products for delivering accurate and reliable power measurement data and system load information.

Based in Dallas, Texas, TransData has developed sixgenerations of solid-state energy meters and countless power transducer designs. TransData's mission is to provide a valuable strategic partner to fulfill our clients diverse power and energy metering requirements.

TransData believes that forging long-term relationships based upon win-win scenarios and dedication-to-quality are key aspects to market leadership. The philosophy of listening to our customers' special needs and developing product offerings that far exceed their requirements is also central to success.

### **Representative Clientele**



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