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JEMSTAR High Accuracy Revenue Meter

FOR GENERATION, TRANSMISSION, AND INDUSTRIAL POWER MEASUREMENT

REVENUE METER

High precision and ease of use best describe the JEMSTAR revenue meter. Quick intuitive setup using Windows based software makes configuration a breeze. For revenue and billing, the JEMSTAR's high accuracy guarantees that every measurement is properly accounted for. Anticipate loads in advance with our demand prediction option. Our advanced communication options provide many choices and protocol platforms for easy access to our metering data. For peace of mind, your site conditions are continuously monitored with our diagnostic tools that notify you quickly of any impending problem.

Ease of Use

The JEMSTAR is the easiest meter to configure with its Windows based JEMWARE Configuration Wizard and on-line help system. The quick intuitive process eliminates the need for specialized training and gets you up and running with minimal effort. The JEMSTAR meter is user friendly with its built-in menu-driven display and site verification tools.

High Accuracy

The JEMSTAR has a guaranteed accuracy of 0.07% on watt-hours with an unprecedented typical accuracy of 0.03%. When accounting for revenue, even a fraction of a percent can mean the difference of thousands of dollars. Accuracy is further enhanced with TLC, LLC and selectable gain adjustments on PTs and CTs.

Power Quality

The JEMSTAR records voltage sag and swells based on configurable thresholds so you can determine the quantity, severity and location of your power quality disturbances. In addition, the JEMSTAR logs current/voltage THD, power factor, imbalance and frequency so you have the complete picture on power quality.

AMETEK

POWER INSTRUMENTS



Simultaneous communications are possible using industry standard protocols: DNP 3.0, Modbus RTU and ASCII, ANSI Tables, JEM Binary and support for MV90.

FEATURES AND BENEFITS

- Easy to Use
 - JEMWARE configuration wizard
 - On-line help system
 - Menu-driven graphical display
 - Site verification tools
- High Accuracy
 - 0.07% of reading for watt-hours
 - Simultaneous uncompensated and compensated (TLC, LLC) measurements
 - Selectable PT/CT gain error correction
- Versatile
 - Power quality, totalization
 - Digital inputs/outputs, analog outputs
 - Wide, auto-ranging input (55-530 VAC)
- Advanced Communication Options
 - Internal modem
 - Single RS-232/485 (selectable)
 - Dual RS-232/485 (simultaneous)
 - Modem and RS-232/485
 - Ethernet and RS-232/485

SPECIFICATIONS

METER FORMS

Meter Forms: 5, 6, 8, 9

INPUTS

Voltage

- 55-530 VAC auto-ranging
- Burden*: 0.5 VA @ 530V
- *Does not include auxiliary power requirements.

Current

- 1 Amp: ANSI Class 2
- 5 Amps: ANSI Class 10
- 10 Amps: ANSI Class 20
- Burden: 0.5 VA maximum
- Overload: 1.5x rated class current continuous, 20x rated class current for 0.50 sec
- Frequency range: 45-55 Hz, 55-65 Hz

AUXILIARY POWER

55 - 530 VAC, 90 - 250 VDC

S-base and A-base

- Normally derived from A-phase voltage input

Switchboard

- Separate terminals, AC or DC

Auxiliary Power Burden

- 15 VA maximum

ACCURACY

Watt-hour

- 0.07% Reading (0.03% Typ.)

Clock

- Synchronized to line or +3 minutes per month maximum error for internal reference.

Loss Compensation

- Transformer Loss Compensation (TLC) and Line Loss Compensation (LLC)
- PT and CT Error Gain Correction

MEASUREMENTS

Energy PolyPhase Quantities

- Watthour, VARhour, VAhour, Amphour, Qhour

Energy Per Phase Quantities

- Watthour, VARhour, VAhour, Amphour, Qhour

Instantaneous Quantities

- Per phase: +Watts, +VARs, Quadrant VARs, +VA, +Q, PF, Volts, Volts THD, Amps, Neutral Current, Amps THD, Volts², Amps²
- System: +Watts, +VARs, Quadrant VARs, +VA, +Q, PF, Volts, Amps, Amps², average Volts, frequency

REGISTERS

50 Normal, 50 Alternate, 50 Test

Demand Registers

- Fixed or sliding window
- Interval length: 1-60 minutes

LOAD PROFILE

4 channels of storage (standard)

12 channels of storage (optional)

Programmable Interval

- 1-60 minutes

45 days storage using four channels at

15-minute intervals

TOTALIZATION (OPTIONAL)

Up to 2 contact inputs

Up to 12 totalization measurements displayed and recorded

POWER QUALITY (OPTIONAL)

Configurable thresholds for voltage

sags and swells per phase

Records start and duration in cycles

Records min/max/avg voltage and

current per phase, avg power factor

Stores up to 100 events

Maximum event length of 600 cycles

DIGITAL INPUTS/OUTPUTS

(OPTIONAL)

DI/DO option: Two Form-A contact inputs and four Form-A solid-state outputs

5 KYZ option: Two Form-A contact inputs and five Form-C solid-state outputs (only one option available at a time)

Contact Inputs

- Maximum voltage 40 VDC
- User-configurable for: pulse counter, interval synchronization pulse, TOU rate override, status input, totalization

Solidstate Outputs

- Maximum open-circuit voltage: 200V DC or peak AC
- Maximum switching current: 50 mA
- User-configurable for: any consumption quantity, energy pulse (KYZ), site monitor alarm, threshold alarm, demand sync, voltage sag/swell alarm, system error alarm

ANALOG OUTPUTS

(OPTIONAL)

- Three independent outputs 0 +1 mA or 4-20 mA
- User-configurable for any instantaneous quantity

COMMUNICATIONS

Optical Port (Standard)

- Type 2 - 19,200 Baud

One Comm option board per meter

Serial Port Board

- Single or dual serial port
- RS-232 or RS-485
- User configurable: 300 to 38400 baud

Internal Modem Board

- 14,400 baud
- With optional serial port (RS-232 or 485)
- With optional phone home on power fail
- With optional RS-485 Communication Repeater

Ethernet Board

- 10 baseT, unshielded twisted pair
- Up to 4 simultaneous connections
- With serial port (RS-232/485)

Optional Communication Protocols

- Modbus ASCII or RTU
- DNP 3.0
- ANSI Tables
- JEM Binary (included)

MECHANICAL

Case Styles

- Socket connected (S-base), small switchboard case, bottom connected (A-Base), meter retrofits (JEM-2 and others)

Size and Weight

- S base: 5.5 pounds
- A-base: 7.5 pounds
- Switchboard case: 11.5 pounds

ENVIRONMENT

Operating Temperature

- -40° to 185°F (-40° to 85°C)

Storage Temperature

- -40° to 185°F (-40° to 85°C)

Humidity

- 5 to 95% relative humidity, non-condensing

Surge Withstand (SWC)

- ANSI Standard C37.90.1-1989, ANSI Standard C62.41

Fast Transient

- IEC Standard 687 Section 5.5.4

STANDARDS

Agency Standards and Certifications:

- ANSI Standard C12.16-1991
- ANSI C12.20-1998 Accuracy 0.2%
- IEC Standard 687 Class 0.2
- FCC Part 68, FCC Part 15
- IEC 60687

•CE

- Measurement Canada
- California ISO
- NY PSC

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