Highly Advanced Revenue Meter

- 0.06% Wh Accuracy
- Precision Auto-calibrating Metrology
- Multipoint Compensation Factors
- Pulse Totalizers
- Load Profilers and I/O
- MV-90 Compatible
- Available in Socket, A-Base and Switchboard Form

Highly Advanced Communication

- Up to 4 Com Ports
- Modbus RTU and Modbus TCP/IP
- DNP 3.0 Serial and Ethernet
- Combo RJ11 Modem and Ethernet Port
- Web Server and Email on Alarm
- High-Speed, Power Quality Waveform Recorder
- 9 Levels of Password Security
The Nexus® 1262/1272 meters are designed for demanding smart grid and intelligent substation applications. They provide one of the most profound analyses of electricity available in a socket form revenue meter. The units offer extensive advanced monitoring features to meet the most critical power monitoring requirements. Using advanced DSP technology, the Nexus® meters provide immediate and stored revenue power data coupled with superior power quality and communication. To meet the sophisticated standards required by utility companies and de-regulated power providers, the Nexus® meters' basic package starts where most other meters end. Standard features in Nexus® units provide the ability to meet your future advanced metering needs.

ACCU-MEASURE™ AUTO-CALIBRATING METROLOGY

EIG’s Accu-Measure™ auto-calibrating metrology provides unmatched accuracy.
- Energy and Power Accuracy to within 0.06%
- Auto-calibration over Time
- Automatic Temperature Drift Adjustments
- Improved Stability and Better Long Term Accuracy

4 QUADRANT MEASUREMENT

The unit is a full four quadrant meter and gathers hour data information in every quadrant.
- kWh Delivered and Received
- kVArh in Each Quadrant
- Q Hours

TIME OF USE

The 1262/1272 offers robust time of use functionality. Standard capabilities include:
- 8 TOU Schedules
- 4 Seasons/Year
- 20 Year Calendar
- Prior Month and Prior Season
- Programmable Freeze Registers

TRANSFORMER AND LINE LOSS COMPENSATION

Loss Compensation adjusts for both copper and iron losses with a simple user setup.

FIELD TEST MODE

- Test All Energy Readings
- Enable/Disable in Test Mode
- Preset Accumulators
- Freezable Accumulators

LOAD AGGREGATION/UNIVERSAL METERING

Using standard pulse inputs, the Nexus® 1262/1272 meter can count pulses from external meters and accumulate usage. The pulse inputs can be used to totalize electrical usage and utility values, such as water or gas use data.
- 8 Pulse Inputs
- Individual Accumulating Registers
- 4 Totalizing Registers (Add or Subtract)

CT & PT COMPENSATION

The Nexus® units compensate for errors in current transformers and potential transformers.
- Voltage Compensation
- Multipoint Current Compensation
- Multipoint Phase Angle Compensation
- Better than 0.01% Resolution

MULTIPLE DEMAND WINDOWS

The Nexus® 1262/1272 meter simultaneously monitors five demand structures.
- Interval Length from 1 Second to Many Hours
- End of Interval Pulse Output
- End of Interval Pulse Input
- Cold Load Pickup

TIME STAMPED MAX. DEMANDS

The units gather demand information for all power values. Each value is date/time stamped.
- kW Demand, Delivered & Received, Max/Min
- kVAR Demand, Delivered & Received, Max/Min
- kVAR Coincident with kW Demand
- kVA Demand, Max/Min
- Amps Demand, Max/Min
- Voltage, Max/Min
Unique Display Configurator

The Nexus® 1262/1272 meter is designed with one of the industry’s most advanced LCD display configuration technologies, which lets you choose from multitudes of pre-programmed display screens and create fully customized displays for any specific application. Build from scratch, as needed, user display screens that provide information on anything the meter measures (which is almost everything). Use the display to view not only electrical, but water or gas usage. Also use the meter as an aggregator for total usage. Provide ambient and transformer temperature or any other desired critical operational data on the display.

3 DISPLAY MODES/75 SCREEN SLOTS

The meter’s memory has 75 slots for custom and/or pre-programmed screens. These slots can be allocated to any view mode with any number of slots used in each of the modes.

CUSTOM DISPLAY CONFIGURATOR TO CREATE EXACTLY WHAT’S NEEDED

- Make Custom Screens Based on Modbus Registers
- Make Any Custom Labels
- Customize Screen Numbering and Order
- Display Up To 5 Pieces of Information Per Screen
- Display Water, Gas and Other Types of Usage
- Add Diagnostic Information

NORMAL MODE

- kWh Delivered and Received
- kVARh Delivered and Received
- kVAh Delivered and Received
- Peak Rolling Window Demand
- Peak Block Window Demand

TIME OF USE MODE

- kWh and kW Demand Delivered and Received Total
- kVARh and kVAR Demand Delivered and Received for Each Register
- kVAh Delivered and Received for Each Register
- kVAh Delivered and Received Total

PRE-CONFIGURED DIAGNOSTIC SCREENS

Select from a large offering of diagnostic screens such as:

- Voltages
- Harmonic Magnitudes
- Meter Status
- Per Phase Amps
- Many More Diagnostic Screens Available

INFRARED TEST PULSE

The meter provides an infrared test pulse that can pulse for +Wh, -Wh, +VARh, -VARh, and VAh. This pulse uses time modulation, allowing the pulse to be accurate during short duration pulse tests using industry accepted reference standards.
Advanced Communication and I/O Capabilities

STANDARD MULTI-PORT COMMUNICATION
- Optical Port
- 2 RS485 Serial Ports
- Modbus RTU/ASCII
- DNP 3.0
- Speeds Up to 115200 bps

OPTIONAL COMMUNICATION
- Dial-Out Modem (56k) with Battery
- Backed Outage Reporting (INP2)
- 10/100BaseT Ethernet (INP200)
- Ethernet/Modem Combo (INP202)

COMBINATION MODEM & WEB SOLUTION
This option allows you to access the meter through the web and through a modem for dial-up communication. Features include:
- 56k Modem
- 10/100BaseT Ethernet
- Total Web Solutions (Web Server)
- Email on Alarm
- 12 Modbus Sockets
- 5 DNP over Ethernet Sockets
- Does Not Support Battery for Outage Reporting

STANDARD I/O
- IRIG-B 1 msec Time Synchronization to GPS Satellite Clock
- 4 Internal KYZ Pulse Outputs
- 8 KYZ Pulse/Status Inputs

OPTIONAL EXTERNAL I/O
Connect multiple external I/O Modules for enhanced I/O capability.
- Analog Outputs
- Analog Inputs
- Digital Status Inputs
- KYZ Outputs
- Relay/Alarm Outputs

CONTROL CAPABILITIES
- ElectroLogic™ Provides User-definable Control Outputs
- Action and/or Alarm on Abnormal Condition
- Action on Boolean Logic Combinations of Inputs or Electrical Conditions

DNP 3.0 LEVEL 2 PLUS
The Nexus® 1262/1272 meter provides advanced DNP 3.0 protocol implementations. DNP 3.0 is available on the serial and Ethernet ports. EIG’s Nexus® 1262/1272 meter complies with all DNP Level 1 and Level 2 certification requirements PLUS a host of additional features including:
- Up to 104 Measurements:
  - 64 Binary Inputs, 8 Binary Counters,
  - 32 Analog Inputs Mapped to DNP Static Points in the Customizable DNP Point Map
- Up to 16 Relays and 8 Resets: Can Be Controlled through DNP
- Report-By-Exception Processing: (DNP Events) Deadbands Can Be Set on a Per-point Basis
- 250 Events in Combinations of Four Events:
  - Binary Input Change, Frozen Counter, Counter Change, Analog Change
- Freeze Commands: Freeze, Freeze/No-Ack, Freeze with Time, Freeze with Time/No-Ack, Scheduled Freeze Command
- Freeze with Time Command:
  - Enables the Nexus® Meter to Have Internal Time-driven Frozen Counter and Frozen Counter Event Data
- Third Party Certification is Available
- 5 Simultaneous DNP Ethernet Sessions

Total Web Solutions — Providing Advanced Metering Data Integration With the Web
Total Web Solutions is an advanced Ethernet communication architecture that lets you design custom webpages, display metering data and host your meter power information website directly on a Nexus® meter. The Nexus® meter hosts the web data without any need for dedicated server software, ActiveX Controls or Java Applets. The meter does the data collection, the formatting and the page hosting.

ADVANCED FEATURES INCLUDE:
- Fully Customizable Webpage Development
- Direct Webpage Hosting With Live Readings
- Multiple Meter Hosting
- Read Direct From Meters (No Server Software Needed)
- No Active Controls or Java Downloads
- IT Dept Friendly; Works Through Firewalls; Low-Cost/High Functionality
- Instant Alarm Emails – Direct from the Meter

WEBEXPLORER
(Directly Host Metering Data)
EIG’s WebExplorer provides you with direct access to all power data through Internet Explorer in standard HTML format, without needing to download ActiveX controls or Java applets. WebExplorer is fully programmable, so you can customize your own SCADA quality webpages, graphics and configurations.
- Easily Incorporated Into Any Existing Web Applications
- Fully Programmable Webpage Generator
- Brings in Direct XML Links, Displaying Many Meters on One Page

WEBXML
Creates Real Time Data in XML Format. WebXML allows the Nexus® meter to gather data from the Nexus® host or through other meters and put the data directly into an XML format. This allows you to share data through the web with multiple applications and create custom webpages, using WebExplorer.
WEBAIM – EMAIL ALERTS
EIG’s WebAlarm sends real time email alerts via the Internet to up to 9 recipients simultaneously for any combination of event notifications.
- Real Time Alerts
- Simultaneous Emails to Multiple Recipients
- Update Users on Virtually Any Abnormality
- Uses Standard SMTP — Just Assign Email Addresses
- Shows the Last 10 Emails on Website for Later Investigation

WEBMOD (Open Architecture 3rd Party Integration)
The 10/100BaseT design allows the unit to speak with 12 simultaneous sockets of Modbus RTU or TCP/IP (WebReacher)
- Customized Programming
- Easily Viewed by Different Applications
- Modbus Data Concentrator

WEBXML technology is easy to configure and extremely flexible. With WebXML, your data is instantly available to a host of software applications, including standard web browsers and documentation software.
- Automatically Process and Present Data In Readable XML Format
- Add Scale Factors, Multipliers or Other Desired HTML Capability
- Display Data From Host Meter and/or Any Other Meter Using Modbus RTU or TCP/IP (WebReacher)
- Customized Programming
- Easily Viewed by Different Applications
- Modbus Data Concentrator

WEBREACHER
With EIG’s exclusive WebReacher technology, you can now access remote meters around the world, retrieve data and consolidate it onto one webpage or website without any separate software SCADA package or client-side ActiveX controls or Java applets.
- No Additional Software Application Costs
- No Server System Required
- No Complex Integration
- No Costly Point Charges (Up to 32 Devices)

WEBDNP
Using this feature, you can gain access to the meter speaking native DNP over Ethernet. This allows the unit to open an exclusive network socket for DNP 3.0. Using this unique technology, all other meter web features are available simultaneously. Even with DNP 3.0 over the Ethernet, you still have access to multiple Modbus sockets, email alarms, web servers and many other communication features.

Total Web Solutions allows a meter to display data from many remote meters.
The processing capability and accuracy of the Nexus® 1272 meter makes it possible to gather power quality information with unmatched precision. The Nexus® 1272 unit is ideally suited for application on all critical loads. From health care to micro-electronics, the 1272 has what it takes to capture every anomaly. This insures that when there is a power problem, you have the information required to act. All Power Quality logs are time stamped to the nearest millisecond to insure accurate recording. The meter’s Advanced Download Logic collects only new data, to minimize download times.

**EVENT/OUT OF LIMIT LOG**
- Records 1024 Events
- Out of Limit Recording
- High-Speed Input Event Recording
- Outage Detection
- Extensive Limit Setting Capabilities with Multiple Limits per Selected Quantity

**WAVEFORM LOG**
The waveform recording capability of the Nexus® 1272 unit is unparalleled by any other meter. Waveform records of this quality have historically been reserved only for transmission lines. The power of the Nexus® 1272 meter now makes this quality available to your critical customers.

- Extraordinary Resolution through 16-bit A/D Input
- Sample Rates from 16 to 512 Samples per Cycle
- Total Recording Time Over 100 Seconds
- Up to Six Channels
- Voltage and Current Triggers
- External Event Trigger
- Voltage Surge/Sag Recording
- Current Fault Analysis

**HARMONIC DISTORTION ANALYSIS**
- Log Harmonics into Historical Log for Later Analysis
- Recorded Waveforms Provide Harmonics to the 255th Order
- View Waveform Record

**CBEMA/ITIC LOG**
The separate CBEMA/ITIC Log captures all voltage transients that fall outside these standards. The onboard log holds 1024 events. The data is downloaded to a separate log in the meter database for easy analysis. See all voltage disturbances on one screen through the Communicator EXT™ software.

- Sag/Swell Analysis
- Transient Recording
The accuracy and precision of the Nexus® 1272 meter, coupled with its extraordinary logging capability, makes it an ideal tool for system performance and reliability analysis. For the first time, at the revenue metering site, users have the accuracy and precision of a digital fault recorder without the expense. The Nexus® 1272 meter’s 16-bit ADC accuracy and resolution for waveform records actually exceeds many digital fault recorder products. Combine the Nexus® 1272 unit with EIG’s suite of software solutions to further expand the level of understanding during any monitoring situation.

**COMMUNICATOR EXT™ SOFTWARE FAULT ANALYSIS**

- Compares Multiple Fault Records
- Measures Waveform Traces
- Inserts Timing Marks to Analyze Waveform Transients
- Displays CBEMA Logs
- PQDIF File Format Converter Allows Nexus® Data to be Read by Standard EPRI Power Quality Viewing Software
- COMTRADE File Converter Changes Fault Records to Standard Fault Analysis File Formats

**AT THE INTERCHANGE POINT**

The Nexus® meter gives you the power of a sequence of events recorder on every transmission line or interchange point. The unit is always watching, and has extended memory capability which can record multiple faults, or even frequency swings, during stability problems. Capture all voltages and currents.

Download the data and open the files with Communicator EXT™ software. Compare multiple channels; measure amplitudes and timing with millisecond resolution; see system reliability events that lasted for several seconds.

**TEST PROTECTIVE EQUIPMENT**

Need to test protective equipment performance? Simply take the Nexus® record and convert it to COMTRADE format. Insert the file directly to protective test equipment to verify relay performance.

**AT THE CUSTOMER**

When that key customer calls, simply perform a download from the Nexus® 1272 meter. In a few minutes, all the data related to any event is on your desktop, letting you find the answers the customer needs.

Need to perform a more detailed evaluation? Simply open the viewer to look at the waveforms and see exactly what happened to voltages and currents throughout the event. Only the Nexus® meter provides precise pictures for many seconds.

**Supported Meter Forms**

<table>
<thead>
<tr>
<th>FORM</th>
<th>RATED VOLTAGE</th>
<th>HOOKUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>9S</td>
<td>0 to 277 V</td>
<td>3E, 4 wire, Wye</td>
</tr>
<tr>
<td></td>
<td>L-N</td>
<td></td>
</tr>
<tr>
<td>36S</td>
<td>0 to 277 V</td>
<td>2½ E, 4 wire, Wye</td>
</tr>
<tr>
<td></td>
<td>L-N</td>
<td></td>
</tr>
<tr>
<td>45S</td>
<td>0 to 480 V</td>
<td>2E, 3 wire, Delta</td>
</tr>
<tr>
<td></td>
<td>L-L</td>
<td></td>
</tr>
<tr>
<td>SWB2</td>
<td>0 to 277 V</td>
<td>Programmable (Universal Forms)</td>
</tr>
<tr>
<td></td>
<td>L-N</td>
<td></td>
</tr>
<tr>
<td>9A</td>
<td>0 to 277 V</td>
<td>A Base Form</td>
</tr>
<tr>
<td></td>
<td>L-N</td>
<td></td>
</tr>
</tbody>
</table>

**Accuracy**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>ACCURACY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>0.02%</td>
</tr>
<tr>
<td>Current</td>
<td>0.05%</td>
</tr>
<tr>
<td>Frequency</td>
<td>0.001 Hz</td>
</tr>
<tr>
<td>W</td>
<td>0.06%</td>
</tr>
<tr>
<td>Wh @1.0 PF</td>
<td>0.06%</td>
</tr>
<tr>
<td>Wh @0.5 PF</td>
<td>0.10%</td>
</tr>
<tr>
<td>VAR</td>
<td>0.10%</td>
</tr>
<tr>
<td>VA</td>
<td>0.10%</td>
</tr>
<tr>
<td>PF</td>
<td>0.10%</td>
</tr>
</tbody>
</table>
Data and Event Monitoring/Recording

MULTIPLE MEMORY LOGS
Nexus® meters provide many logs to record historical, alarm and system event data. These logs can be used for profiling, recording events and logging electrical power parameters over time. Additionally, using the advanced I/O available with the product, you can also log process measurements, including temperature, pressure, flow, etc.

TWO HISTORICAL TREND LOGS
These logs allow you to trend virtually any electrical parameter over time. This includes all electrical and I/O parameters.
- Up To 64 Values per Log
- Programmable Trend Times
- Provides Magnitude and Duration of Event
- Millisecond Resolution
- 2 Separately Programmable Logs
- Separately Recorded Time Base
- Records Alarms for Electrical and I/O Channels

OUT OF LIMITS LOG
This log records all out-of-limit alarms, including the magnitude and the duration of the alarm.

SYSTEM EVENTS LOG
The unit records the following system events for security and anti-tampering.
- Power Up
- Power Down
- Password Access
- Password Modification
- Change of Programmable Settings
- Change of a Run Time
- Change of Clock Time by Communication (Modbus or DNP)
- Test Mode Usage
- Meter Resets (Logs, Max/Min, Energy)

INPUT STATUS LOG
This log records when a digital status change occurred in either the internal or external inputs.
- Status Log for External Events
- Internally Labeled to Define Events

CONTROL OUTPUT LOG
This log records the logic and state that triggered a control output. The graphical log shows all the steps that led up to the event.
- Displays Pre and Post-Analysis
- Internally Labeled to Define Events
- Advanced I/O Analysis

Logging Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HISTORICAL LOG 1</th>
<th>HISTORICAL LOG 2</th>
<th>CBEMA/TIC</th>
<th>OUT OF LIMIT LOG</th>
<th>WAVEFORM LOG</th>
<th>OUTPUT LOG</th>
<th>INPUT LOG</th>
<th>SYSTEM EVENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1272</td>
<td>555 Days</td>
<td>133 Days</td>
<td>512</td>
<td>1024</td>
<td>95</td>
<td>256</td>
<td>1024</td>
<td>1024</td>
</tr>
<tr>
<td>1262</td>
<td>480 Days</td>
<td>133 Days</td>
<td>N/A</td>
<td>512</td>
<td>N/A</td>
<td>512</td>
<td>1024</td>
<td>1024</td>
</tr>
</tbody>
</table>

1 Assumes logs store 4 scaled energy readings every 15 minutes
2 Number of events recorded (assumes 14 parameters monitored)
3 Number of waveform records - each record may be from 8 to 64 cycles in duration depending upon meter setup
DIAL-OUT ON OUTAGE

The INP2 modem has a dial-out circuit with a battery that detects when voltage is lost and dials out to provide outage notification. Additionally, the circuit can be configured to dial out when many other circumstances occur. The Nexus® 1262/1272 meter dials to the EIG Dial-In Server, which allows users to be paged or emailed with notification of events. When the modem option card is installed, the meter also includes a gateway port. This allows the meter to act as a master for up to 7 additional meters and dial out on alarm for any of these meters.

DIAL-OUT FOR OTHER EVENTS

The meter will dial out for the following circumstances:

- Limits/Status Change
- High Speed Input Change
- Waveform Record Capture
- CBEMA Power Quality Event
- Control Output Change
- Cycling of Control Power
- Password Failure on a Call
- Coming into the Modem
- Meter Communication Failure

DIAL-IN SERVER CAPABILITIES

The EIG Dial-In Server records all notifications, accepts downloads from the meter and allows users to be notified by email and pager, automatically. Features of the Dial-In Server include:

- Unlimited Meters
- Email Notification
- Audible System Alarm
- Scalable Multi-server Architecture
- Paging Notification

MULTI-LEVEL SECURE COMMUNICATION

The Nexus® 1272 meter offers 9 levels of password security to protect the meter from unauthorized use. Each level can be configured to enable specific capabilities, so that a Utility can control access to functions according to the type of user. For example, one user level is able to create and change TOU calendars, while a different user level is able to read TOU data, but not change anything.
Wiring Diagrams

Form 9S, 4-Wire Wye and Delta

Switchboard Mount, 4-Wire Delta

Form 45S, 3-Wire Delta

Switchboard Mount, 3-Wire Delta

Note: Additional configurations are available - see the meter's installation manual for more options.
Specifications

SENSE INPUTS: CURRENT (ac)
- Transformer (CT) rated
- 2 or 3 current inputs depending on Form (A, Ib, Ic)
- Class 2 – 1 A nominal, burden 0.00312 VA@25 A
- Class 10, 20 – 5 A nominal, burden 0.0125 VA@25 A
- 0.1% of nominal pickup current
- 120% over range of Meter Class
- Current surge withstand (at 23 °C) - 100 A
- 0.1% of nominal pickup current
- 120% over range of Meter Class

SENSING
- Accu-Measure™ Auto-calibration
- 16 bit A/D Inputs
- True RMS
- 8 Channel Sample & Hold

MEMORY
- All Meter Setup Parameters, Measurements & Logs Contained in Nonvolatile Memory

STANDARD COMMUNICATION
- IR Port/ANSI
- Two RS485 Serial Ports
- Modbus RTU, Modbus ASCII, DNP 3.0
- Data Speeds of up to 115200 bps
- Eight High-Speed Input Channels

OPTIONAL COMMUNICATION
- 56k Modem with Dial-Out Capabilities
- Internal 10/100BaseT with Total Web Solutions
- Modem/Ethernet Combo Card
- Modbus TCP and DNP LAN/WAN

INTERNAL 8ch DIGITAL INPUTS
- Type: Self-Excited, for Dry Contacts Only
- Internal Wiring Voltage: 12 VDC Typical

INTERNAL 4ch SOLID STATE OUTPUTS (XZ)
- Type: Form C contacts, pulse or transition based counts
- On Resistance: (23-35) Ω
- Peak Voltage: 350 V DC
- Continuous Load Current: 120 mA
- Peak Load Current: 350 mA (10 ms)
- Off State Leakage Current @350 V DC: 1: 200 µA

VOLTAGE (ac)
- Blade powered unit, standard voltage (option S): 480 V max between Vref and Va, Vb, Vc inputs
- Burden total 12 VA max (including power supply): 600 V max between Va, Vb, Vc inputs
- Blade powered unit low voltage (option LV): 69 V max between Vref and Va, Vb, Vc inputs
- Burden total 12 VA max (including power supply): 120 V max between Va, Vb, Vc inputs
- Externally powered units (options SE, DE): 480 V max between Vref and Va, Vb, Vc inputs
- Burden 0.33 VA@576 V; 600 V max between Va, Vb, Vc inputs
- Input Impedance 1 Mohm/phase
- 20% over range of rated voltage
- 2 V pickup voltage

EXTERNAL POWER SUPPLY OPTIONS
- Standard external (option SE): 102 to 270 V AC/DC @50/60 Hz, 12 VA max
- Low voltage external (option DE): (18 to 60) V DC Burden 9 W max
- Separate power cord
- Switchboard meter is always separately powered (option SE or DE)

Ordering Information (To order, please use this guide)

<table>
<thead>
<tr>
<th>Option Numbers:</th>
<th>Model</th>
<th>Memory</th>
<th>Form</th>
<th>Class (Amps)</th>
<th>Frequency</th>
<th>Power Supply</th>
<th>Optional Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example:</td>
<td>1272</td>
<td>A</td>
<td>9S</td>
<td>20</td>
<td>60</td>
<td>DE</td>
<td>INP200</td>
</tr>
<tr>
<td></td>
<td>1262</td>
<td></td>
<td>36S</td>
<td>10 2 A</td>
<td>50 50 Hz</td>
<td>SE</td>
<td>No Optional Com</td>
</tr>
<tr>
<td></td>
<td>455</td>
<td></td>
<td>20</td>
<td>20 A</td>
<td>60 60 Hz</td>
<td>SE</td>
<td>INP200</td>
</tr>
<tr>
<td></td>
<td>SWB2</td>
<td></td>
<td>LV</td>
<td>69 V AC</td>
<td>DE Ext (18-60) V DC</td>
<td>INP202</td>
<td>Modern with Dial-Out</td>
</tr>
</tbody>
</table>

9A (A Base)

1 Switchboard Meter Only Supports SE or DE Options.

Accessory Options

OPTIONAL I/O MODULES
- 1mAON4: 4 Analog Outputs, 0±1mA
- 1mAON8: 8 Analog Outputs, 0±1mA
- 20mAON4: 4 Analog Outputs, 4-20mA
- 20mAON8: 8 Analog Outputs, 4-20mA
- 4R1: 4 Relay Outputs
- 4P1: 4 Solid State Pulse Outputs
- 8A1: 0±1mA, 8 Analog Inputs
- 8A2: 4-20mA, 8 Analog Inputs
- 8A3: 0±1VDC, 8 Analog Inputs
- 8A4: 0±10VDC, 8 Analog Inputs
- 8D1: 8 Status Inputs, Wet/Dry

POWER OPTIONS
- PSIO: I/O Power Supply (Required with I/O Module)
- BAT1: External Rechargeable Battery for Dial Out on Outage

SOFTWARE OPTIONS
- CMDEXT4P: Communicator EXT™ Software Single-Computer License (One Site)
- DISEXT1C: Dial-In Server Single-Computer License (One Site)

Mounting Options
- MB10: I/O Module Mounting Bracket (Required with any I/O Option)