# GE Grid Solutions





Ideal for industrial, commercial, and utility applications, the performance enhanced EPM 9650 & 9450 Power Quality Meters provide a comprehensive set of features required for the highest levels of Power Quality analysis and communications.

The Multilin™ EPM 9650 & 9450 meters provide the total picture of power usage and power quality for metered points within a distribution network, allowing users to make power related decisions quickly and effectively.

### **Key Benefits**

- High-performance power quality and revenue class metering for critical power applications
- EN50160 flicker with up to 512 waveform samples per cycle and high-speed transient recording for complete power quality monitoring
- Fast response time to power quality events for diagnostics and maintenance
- Built-in GPS clock sync capability for accurate time stamping of events and alarms for synchronized system monitoring
- Exceeds ANSI C-12 and IEC 687 specifications for accuracy with auto calibration using temperature compensation
- Software and hardware triggers record waveform events, allowing the meter to be used for fault
  analysis, system apparatus monitoring and many other applications
- Real time phasor analyzer monitors phase angles between the voltages and currents
- Able to record THD to the 255th order peak and real-time harmonic magnitudes analysis to the 128th order for every channel for accurate power quality analysis
- Simplified system integration with communication option for 10/100 BaseT Ethernet with Modbus/TCP
- Expandable analog and digital output modules, simplifying the polling, logging, and transfer of data to master station devices

### **Applications**

- Revenue class metering and load aggregation for energy management
- Transformer loss compensation
- High-performance power quality monitoring of critical loads



## Monitoring & Metering

- Current, voltage, real and reactive power, energy use, cost of power, power factor and frequency
- Laboratory grade 0.04% Watt-Hour accuracy
- Flicker and waveform recording
- Real-time PQ monitoring and harmonic magnitude analysis to 255th order

### Control

- Programmable setpoints for alarms and 90 millisecond relay activation for high speed updates and control
- Expandable external outputs
- 8 built-in, high-speed, digital inputs
- Multiple analog, digital and relay outputs

### Communications

- On-board Ethernet and Modbus/TCP capability
- High-speed RS485 and RS232 Com Ports
- Multiple protocols including Modbus and DNP3.0 level 2
- Built-in modem with dial-out capability
- Web Server & Gateway



### Standard Features

Perfect for industrial, commercial and utility applications, the performance enhanced EPM 9000 Series of meters, includes all the attributes required for the highest level of PQ analysis and communications. From today's utility giants to Fortune 100 companies to local electrical municipals, an effective energy management and power-monitoring program is critical for success. The EPM 9650 & 9450 are advanced monitoring products, providing the total picture of power usage and power quality for any metered point within a power distribution network allowing users to make power related decisions quickly and effectively.

#### **Robust Communication**

Four Isolated High-speed Communication Ports: EPM 9000 Series of meters offers four built-in communication ports. Each port can communicate independently using supported protocols. Standard protocols include Modbus RTU/ASCII and DNP 3.0. Logs and waveform events are available in Modbus format. Port 3 and Port 4 can be used as a Modbus slave for external output modules.

### 8 Built-in Digital High Speed Status Inputs: These inputs automatically sense whether the circuit is externally wetted. If externally wetted,

circuit is externally wetted. If externally wetted, the input will accept up to 400VDC. If internally wetted, the unit supplies the needed voltage for the desired control application.

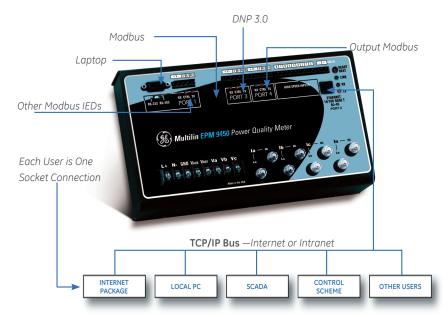
High Speed-Transducer Outputs for Control Purposes: EPM 9000 Series of meters offers 50 millisec updates for all instantaneous readings. The unit can be a high-speed control transducer for power generation, transmission line synchronization and other control schemes.

### **Precision Power Quality Measurement**

16-bit Waveform and Fault Recorder: EPM 9000 Series of meters captures up to 512 samples per cycle for an event. Voltage and current are recorded with pre-and-post-event analysis. Hardware and software triggers are available to activate a waveform reading, which can be used for power quality surveys, fault analysis, breaker timing, motor start-up, etc.

Measure and Record Harmonics Magnitude to the 255th Order: Measure harmonics magnitude up to the 255th order for each voltage and current channel. Real-time harmonics magnitude are resolved to the 128th order. Percent THD and K-factor are also calculated. Harmonic magnitude analysis allows users to

### **Multiple Communication Paths**



Multiple socket Internet or Intranet meter access up to 12 sockets simultaneously

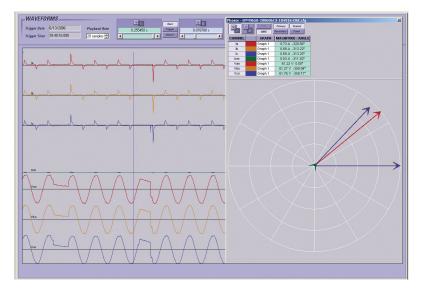
conduct power quality analysis at the high end of the harmonic spectrum.

Sub-Cycle Transient Recorder: The unit records sub-cycle transients on voltage and current readings. It monitors switching noise from capacitors, static transfer switches, SCRs and many other "power quality harmful" devices. Transients are often the cause of intermittent and expensive downtime, and may cause damage to electrical equipment.

Phasor Analysis: The monitor reads a phase angle analysis between the voltage and current

channels, allowing for efficiency and systemintegrity analysis.

Inter-harmonics Analysis: The EPM 9000 Series of meters provides users with the ability to view inter-harmonics, the discrete frequencies that lie between the harmonics of the power frequency voltage and current. Frequencies can now be observed which are not an integer multiple of the fundamental.



EnerVista Viewpoint Monitoring waveform viewer for analyzing fault data

#### User Interface



#### **Revenue Metering**

#### Accuracy in Billing Measurements:

Dual 16 Bit A/D converters provide supreme sampling accuracy and resolution. The unit far exceeds ANSI C-12 and IEC 687 accuracy standards offering 0.04% watt-hour accuracy.

To ensure optimum accuracy the unit autoadjusts to dual internal references accurate to 1 part per million. In addition, the EPM 9000 uses an auto-calibration technique that recalibrates the unit on the fly when the temperature changes more than 5 degrees Celsius for improved accuracy over the full temperature range. Max/Min Integration and Recording: The unit offers time stamped max and min values for every measured reading. kW readings are integrated using:

- Block (fixed) window
- Thermal window
- Rolling (sliding) window
- Predictive window

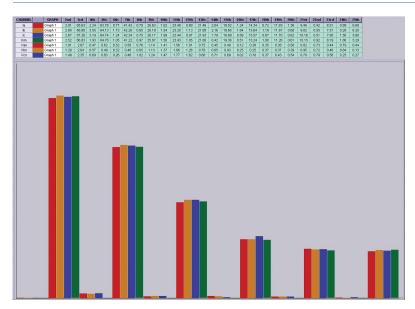
Time of use (TOU) Capability: EPM 9000 offers comprehensive time of use capability. Standard features include:

- Bi-directional consumption and demand quantities
- 20-year calendar 4 seasons/yr, 2 holidays/yr
- 4 TOU schedules/seasons
- · Prior month, prior season storage
- Present month, present season storage

#### Transformer Loss and Line Loss Compensation:

The unit compensates for transformer and line losses. Power reading compensation is conducted for both iron and copper losses.

Load Aggregation/Universal Metering: Using the status inputs, EPM 9000 has the ability to count pulses and aggregate different loads providing a total picture of the load and its component parts. This can be used to accumulate and aggregate other utilities such as water and gas data.



EnerVista Viewpoint Monitoring harmonic spectrum graph to quantify power quality

#### Multiple Programmable Memory Logs

The EPM 9000 Series meters utilize two separate logs of historical information. History can be used for trending and conducting preventive maintenance. Conduct preventative maintenance on critical equipment as well as power analysis.

### Primary Historical Tending Log File - Log 1

Log any measured parameter from either the main unit or any of the option modules. Either 8, 16, 32 or 64 values can be logged per programmable interval.

### Secondary Historical Tending Log File -Log 2

This log can be set up as an additional historical interval log or as an exclusive energy log. Either 8, 16, 32 or 64 values can be logged per interval.

#### **Out Of Limit Log**

The units offer an independent out of limit log. This allows a user to download out of limit information to obtain a sequence of events for any occurrence. Utilizing the 1 millisec clock resolution, the logs can be combined with different metered points through a distribution system to provide an accurate system-wide depiction of a power disturbance.

### **Event-Triggered Waveform Recording Log**

EPM 9000 records waveforms with a resolution of up to 512 samples per cycle. The amount of waveform recording is based on the amount of memory installed.

The unit records the waveform when a value goes out of limit and when the value returns to normal. All information is time stamped to the nearest 1 millisec. The 8 on-board high-speed inputs can be tied to the waveform recording. Record when the breaker tripped as compared to when the relay activated. This is very useful for fault and breaker integrity analysis.

The unit can be programmed to take more than one recording every time an event occurs. Thousands of cycles can be recorded per event.

### **Optional Features**

#### Flicker (EPM 9650 only)

#### EN50160 Flicker and Compliance Monitoring:

Flicker consists of low frequency (less than 24 Hz) to intermittent line disturbances on the power line. Flicker can affect equipment. The EPM 9650 complies with the Flicker requirements of EN50160 that includes harmonics.

#### Modem

Dial-Out on Alarm: With the built-in optional modem, the meter provides dial-out capabilities that can detect an alarm occurrence and dials out to provide notification.

#### Dial-Out for other Events

The meter can dial-out for the following circumstances:

- · Limit status change
- High-speed input change
- Waveform record capture
- CBEMA power quality event
- Control output change
- Filling of meter memory
- Cycling of control power
- Password failure on a call coming into the modem
- Meter communication failure

#### Dial-In Server Capabilities

The dial-in server will record all notifications and accept downloads from the meter.

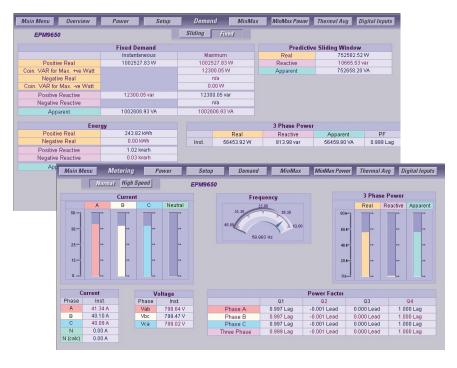
#### **Ethernet Capability**

The EPM 9000 Series of meter has an optional Ethernet that supports Modbus/TCP.

#### **Output Modules**

GE Multilin offers multiple analog and digital output modules that mount externally to the EPM 9650 or 9450 meter. The unit supports up to 4 output modules using internal power. An additional power supply extends output capability. The unit can poll different output devices, log data, and send data to a master station via Modbus or DNP 3.0 protocol.

The EPM 9000 Series of meters power monitor provides advanced logic and control on programmable limit settings.



EnerVista Viewpoint Monitoring - Access real-time system values and track energy consumption

### EnerVista™ Software

#### EnerVista™ Launchpad

EnerVista™ Launchpad is a powerful software package that provides users a platform to access all of the setup and support tools needed for configuring and maintaining GE Multilin Products. Launchpad allows configuration of devices in real-time by communicating using RS232, RS485, Ethernet, or modem connections.

Using Launchpad as the single interface to the setup and analysis software makes it simple to enter setpoints, read metered values, monitor status and evaluate power quality. Powerful troubleshooting features make it easy to retrieve and view voltage & current waveshapes and harmonic analysis. This vital information can help provide early warning of problems and prevent equipment damage or nuisance breaker tripping.

Included in Launchpad is a document archiving and management system that ensures critical documentation is up-to-date and available when needed by automatically checking for and downloading new versions of manuals, applications nates, specifications, and service bulletins.

#### Viewpoint Monitoring

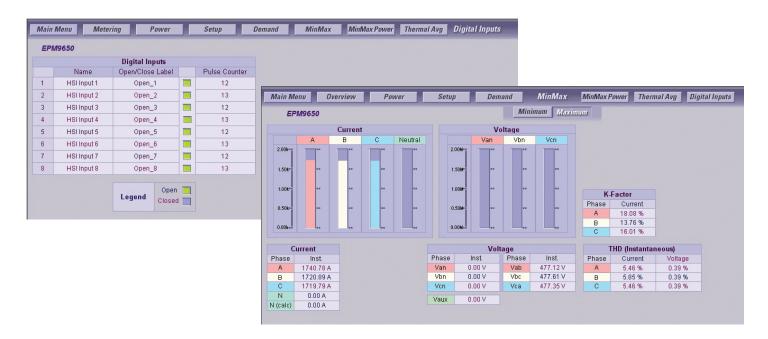
Viewpoint monitoring is a simple-to-use, full-featured monitoring and data recording software package for small systems. Viewpoint Monitoring provides a complete HMI package that instantly puts critical real-time device data on your PC through pre-configured graphical screens with the following functionality:

- Plug-&-Play Device Monitoring
- System Single-Line Monitoring & Control
- Annunciator Alarm Screens
- Trending Reports
- Automatic Event Retrieval
- Automatic Waveform Retrieval

### EnerVista™ Integrator

EnerVista<sup>™</sup> Integrator is a toolkit that allows seamless integration of GE Multilin devices into new or existing automation systems by sending GE device data to HMI, DCS, and SCADA systems. Included in EnverVista Integrator is:

- OPC/DDE Server
- GE Multilin Drivers
- Automatic Event Retrieval
- Automatic Waveform Retrieval



EnerVista Viewpoint Monitoring - Monitor the status of digital inputs and review the magnitude of system highs and lows



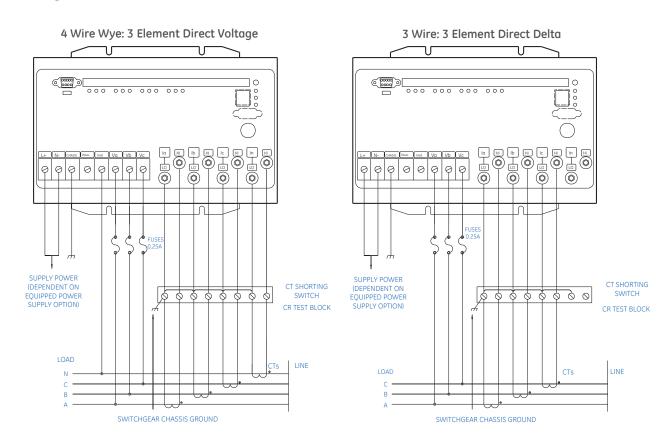
External Output Modules



Multifunction LED Display



## **Typical Wiring**



### **Technical Specifications**

#### DEMAND MONITORING

Measured values Phase A/B/C/N current (A)

3 phase real power (kW) 3 phase reactive power (kvar) 3 phase apparent power (kVA)

Measurement type:

Thermal exponential - 9999 sec, steps of 1 sec Block interval/rolling demand time in interval (programmable): 1 - 9999 sec, steps of 1 sec

#### **POWER SUPPLY**

#### CONTROL POWER

90-276 Volts AC/DC Input options:

20-400Hz Frequency Burden: 20 VA max

#### **METERING**

#### MEASURED VALUES

MEASUREMENTS	200 Millisec*	1 Sec	Display Resolution
Voltage (L-N)	0.10%	0.05%	5 Digit
Voltage (L-L)	0.10%	0.05%	5 Digit
Current	0.10%	0.025%	5 Digit
Frequency	0.03 Hz	0.01 Hz	00.001 Hz
KW @ Unity PF	0.10%	0.06%	5 Digit
KW @ .5 PF	0.10%	0.1%	5 Digit
KVA	0.40%	0.08%	5 Digit
VAR	0.10%	0.0%	5 Digit
PF	0.10%	0.08%	3 Digit
Harmonics	N/A	0.2%	3 Digit
KW/Hours	N/A	0.04%	16 Digit
KVA/Hours	N/A	0.08%	16 Digit
KVAR/Hours	N/A	0.08%	16 Digit

Note: Readings are in percent of reading where applicable (more accurate standard), not in percent of full scale (less accurate standard).

Accuracy harmonics: ANSI C12.20 Class 0.2 and IEC687 Measures harmonic magnitudes to the 255th order for each voltage and current

Real-time harmonics resolved to the 128th

512K RAM

256k

48K

16K

N/A

N/A

2 Meg RAN

176K

WAVEFORM							
Samples	No of	**Max. No	No of				
per Cycle	Cycles	of Cycles	Channels				
	Record per	Record per					
	Screen*	Event					
16	8 Pre / 56	6080	7				
32	4 Pre / 28	3040	7				
64	4 Pre / 12	1520	7				
128	1 Pre / 7	760	7				
256	1 Pre / 3	760	3				
512	1 Pre / 3	760	1				
* Do- + 5 + 6 + (C-  -+++ CO  )							

<sup>\*</sup> Post Event Screen (Calculations at 60Hz.)

DATA LOGGING

Loa Storage Options

Historical Loa 1

Historical Log 2 Out of Limit

Relay Output Loa

Input Status Log

Waveform Recording

Log Storage Options

Historical Log 1

Number of Events

CBEMA Log

EPM 9650

EPM 9450

#### INPUT VOLTAGE RANGE

150V phase to neutral, 300V phase to phase\*
300V phase to neutral, 600V phase to phase \*To be used also with PTs for extended input voltage

#### INPUT CURRENT RANGE

amp inputs 2x continuous programmable to any CT range Fault current recording to 60 amps peak secondary based on 5 amp full scale

Note: 1 amp current inputs available as special order

#### **ISOLATION**

All inputs and outputs are isolated to 2500 Volts

FREQUENCY RANGE

Fundamental 45-75 Hz

BURDEN

Voltage inputs: 0.05VA Max Current inputs: 0.005VA Max

#### SENSING METHOD

Up to 512 samples per cycle (programmable) 16 Bit A/D resolution - dual converters

True RMS UPDATE TIME

Media:

Baud rate

200 millesec — high speed instant readings

1 second — Revenue accurate

### COMMUNICATIONS

Programmable parity and stop bits

4 Communication ports Ports:

2 slave ports

RS-232 or RS-485 selectable Port 1:

Protocol Modbus®

Modbus ASCII/RTU and DNP 3.0

All ports use 2-wire RS-485

communication

56K Modem with dial-out capability Modem: Ethernet: 10/100 base T with Modbus/TCP Protocol

Read/write setpoints **Functions** Read actual values

Isolation: All Com Ports are additionally

isolated from each other

#### ENVIRONMENTAL

Up to 95% non-condensing Humidity -40° C to +80° C ambient

#### CONSTRUCTION

Constructed in a metal case. All hardware is stainless steel.

### PACKAGING

Shipping box: 16" ×13" ×11"

(40.64cm x 33.02cm x 27.94cm) Approx. 12 lbs (5.4 kgs)

4 Meg Record Size

602 Days

Ship weight:

4 Meg RAM

#### **OUTPUT MODULES**

#### ANALOG TRANSDUCER SIGNAL OUTPUT

4 Analog Outputs, 0–1mA, self-powered, scalable, bi-direc-

8 Analog Outputs, 0–1mA, self-powered, scalable, bi-direc-

4 Analog Outputs 4-20mA self-nowered scalable 8 Analog Outputs, 4–20mA, self-powered, scalable

Wiring: Common Mode Accuracy 0.1% of Full Scale Calibration: Self-Calibrating Scalina Programmable

Ordering Up to 4 Analog Output modules can be

Specifics: used with each unit

#### DIGITAL DRY CONTACT RELAY OUTPUTS

4 Relay Outputs, 5 amps, 125, AC/DC, Form C

#### ORDERING SPECIFICS: MULTIPLE MODULES CAN BE USED

#### DIGITAL SOLID STATE PULSE OUTPUTS

4 Solid State Pulse, Outputs, Form A or C KYZ Pulses

#### Maximum Pulse

Speed: 20 pulses per second Ordering Up to 4 modules can be used

#### BUILT-IN DIGITAL INPUTS

8 Digital Status Inputs Wet/Dry Auto-Detect Up to

300 Volts DC

#### DISPLAY

### TOUCH SCREEN LCD DISPLAY

Touch screen graphical display 320 x 240 pixels CCFL backlit Displays data from up to 8 meters 4.7" x 3.5" aperture (12.1cm x 9.1cm)

### LED DISPLAY

3-line multi-function LEDs

RS-485 master

Displays data from a single meter

#### **TYPE TESTS**

### TYPE TESTS AS PER UL® & CE®

Emissions: EN55011 Immunity: FN50082

Accuracy Communication:

ANSI C12.20 Class 0.2 and IEC687

2500 volts AC 60 Hz Isolation: Optically isolated to 2500VDC Voltage Input

withstand:

Current Input 100 amps for 10 Seconds withstand: 300 amps for 1 Second Surge withstand: ANSI/IEEE C37.90.1 ANSI C62.41 Surge: ESD: IEC 1000-4-2 Radiated Immunity IEC 1000-4-3 Fast Transient: IEC 1000-4-4 Surge Immunity IFC 1000-4-5 Flicker Meter: IEC 868 Flicker Meter: IEC 61000-4-15

#### TYPE TESTS

EN55011 Fmissions:

ISO: Manufactured to an ISO9001 registered

program

UL & cUL: Recognized under e200431 Conforms to EN 55011/ EN 50082

Approval:#AE-1069

Industry Canada Revenue Metering:

Historical Log 2 256K 42 Days 400K 66 Days Out of Limit 48K 1024 16K 1024 CBEMA Log 64K N/A N/A Relay Output Log 32K N/A nput Status Log N/A Waveform Recording N/A 8 1568K 96

8Number of Events

2 Meg Record Size

58 Days

512K Record Size

58 Davs

42 Days

N/A

N/A

## Ordering

### Meters

### EPM 9450 - High performance power quality metering with logging

Prequency   0	PL9450 - High pe	*	*	*	A	*	*	0	0	-		escription
System Voltage		0			Ĥ							·
System Voltage	' '											
Control Fewer		4										
Control Power	System Voltage											
Features Options	Control Power			0								
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Soltano		*	*	*	Α	*	*	0	0	0		•
System Voltage	Frequency											
277/88 yorks connection	System Voltage	1	A									
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Peotures Options	Control Power											
Up to 96 days of data logging, up to 64 cycles of woreform recording   Ficker includes odornee untiplus Florides includes 63 485 Moduse and DNP - no modern or Ethernet connection   1	Engluson Online			1	^							
Fileder includes advance unit plus Fileder with A Meg memory, 602 days of data logging	redures Options				А						Up	to 96 days of data logging, up to 64 cycles of waveform recording
Section   Sect					В							
1	Communications					0						
Internal 56k modem connection with pass-through port   S Amps						1						
Current Inputs												
PL9000	Current Inputs						0					
PL9000	A						1				1 A	mps
1 M	Accessories											
1	PL9000	*	*	*	*	*	*	*	0	0	Analog Out	put Modules
PL9000		1	М	Α	0	N						
PL9000		1			0		8					* '
PL9000		2			A	-	N					
S	DI 0000	-										
S	PL9000		Α.	*	*	*	*	*	0	0		
S		8	A	i	2	0	•	•				
PL9000			Α	İ	3	0						
A		8	Α	1	4	0	0	0			8 Channel 0	-10V DC Analog Inputs
A	PI 9000	*	*	*	*	0	0	0	0	0	Digital Out	aut Modules
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PL9000	DI 0000					_	_			•		
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PL9000 P S I O O O O O O Auxiliary Power Supply (For more than 4 modules)  PL9000 * * * * * * * * * * * * 9000 Series Meter Display Module  P 4 0 N P L U S O Three line LED Display  P 6 0 N 0 0 0 0 0 Touch-Screen LCD Display with 6-ft cable  P 6 0 N 1 0 0 0 0 Touch-Screen LCD Display with 15-ft cable  PLSOFT  COMS  COMS  Communicator Software  Communicator Software, Single User License		0	U		1	U	U	U	U	U	o Charmel D	igital status impate
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PLSOFT  PLSOFT  9000 Series Meter Software  COMS  Communicator Software, Single User License		Р	4	0	N	Р	L	U	S	0	Three line LE	ED Display
PLSOFT 9000 Series Meter Software COMS Communicator Software, Single User License		Р	-	-	N	0	-	-	-			
COMS Communicator Software, Single User License		Р	6	0	N	1	0	0	0	0	Touch-Scree	en LCD Display with 15-ft cable
COMS Communicator Software, Single User License	PLSOFT										9000 Series	Meter Software
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