

# The New Generation PowerMeter PLUS

## PM130 PLUS

THE ADVANCED POWERMETER



### Accuracy Improved Revenue Billing

- Certified class 0.5S
- Meets class 0.2S

### Power Quality

- Harmonics analysis
- Displays up to the 39th harmonic
- 63rd harmonic via communications (PAS)



**PLUS!**

### Real Time Clock

- Time stamp for setpoint parameters

### LED Indicator

- Information
- Communication
- Energy pulse
- Kilo / mega
- Bright LED with variable



**PLUS!**

### Optional Modules

- I/O: 4 digital inputs  
2 digital outputs
- 4 analog outputs
- Ethernet (TCP/IP)
- Profibus DP



**PLUS!**

### UTILITIES INDUSTRIES COMMERCE

The ultimate PowerMeter and Power Quality Analyzer for a wide range of applications:

**Monitoring**

**Harmonic detection and analysis**

**Energy Management**

**Power demand**

### Measurement Range

- Current 10 Amp full scale

### Universal Power Supply

- AC/DC 110-220V
- Low DC 12V, 24-48V

### Frequency Selection

- 25, 50, 60, 400 Hz
- True 128 samples per cycle



**PLUS!**

# Measurement Specifications

| Parameter   | Full Scale @ Input Range             | Accuracy   |      | Range  |
|---|--------------------------------------|--|------|--|
|   |                                      | % Reading  | % FS |  |
| Voltage   | 120VxPT @ 120V / 400VxPT @ 690V      | 0.2  | 0.01 | 0 to 1,150,000 V Starting voltage 1.5-5.0% FS (selectable) |
| Line current  | CT                                   | 0.2  | 0.02 | 0 to 50,000 A Starting current: 0.1% FS                    |
| Active power  | 0.36xPTxCT @ 120V / 1.2xPTxCT @ 690V | 0.2  | 0.02 | -10,000,000 kW to +10,000,000 kW                           |
| Reactive power  | 0.36xPTxCT @ 120V / 1.2xPTxCT @ 690V | 0.3  | 0.04 | -10,000,000 kvar to +10,000,000 kvar                       |
| Apparent power  | 0.36xPTxCT @ 120V                    | 0.2  | 0.02 | 0 to 10,000,000 kVA  |
| Power factor  | 1.000                                |  | 0.2  | -0.999 to +1.000   |
| Frequency   |                                      | 0.02   | -    | 15 Hz up to 70 Hz  |
| Total Harmonic Distortion<br>THD V(I), %V <sub>f</sub> (%I <sub>p</sub> ) | 999.9                                | 1.5  | 0.1  | 0 to 999.9   |
| Total Demand Distortion TDD, %  | 100                                  |  | 1.5  | 0-100  |
| Active energy import / export   |                                      | Class 0.5S under conditions as per IEC 62053-22:2003 |      | 0 to 999,999,999 kWh                                       |
| Reactive energy Import / export   |                                      | Class 0.5S under conditions as per IEC 62053-21:2003 |      | 0 to 999,999,999 kvarh                                     |
| Apparent energy   |                                      | Class 0.5S under conditions as per IEC 62053-21:2003 |      | 0 to 999,999,999 kVAh                                      |

## PM130 PLUS ORDER STRING

### MODELS

|         |         |
|---------|---------|
| PM130P  | PM130P  |
| PM130EH | PM130EH |

### OPTIONS

|   |      |
|---|------|
| <b>VOLTAGE INPUTS—FOR SETTING ONLY!</b> |      |
| 690V AC Nominal Voltage Input           | O    |
| 120V AC Nominal Voltage Input           | U    |
| <b>CALIBRATION AT:</b>                  |      |
| 25 Hz                                   | 25   |
| 50 Hz                                   | 50   |
| 60 Hz                                   | 60   |
| 400 Hz                                  | 400  |
| <b>CURRENT INPUTS</b>                   |      |
| 5 Ampere                                | 5    |
| 1 Ampere                                | 1    |
| <b>READING OPTIONS</b>                  |      |
| Low Resolution                          | 0    |
| High Resolution                         | H    |
| <b>POWER SUPPLY</b>                     |      |
| 85-265V AC and 85-290V DC               | ACDC |
| 9.5-18V DC                              | 1DC  |
| 18.5-72V DC                             | 23DC |
| 480V AC +/- 10%                         | 4AC  |

PM130

See **Optional Module** below

## OPTIONAL MODULE

Maximum 1 module per instrument

|  |            |
|--|------------|
| <b>1. ANALOG OUTPUT</b>                        | <b>A0</b>  |
| 1mA  | A1         |
| 0-20mA   | A2         |
| 0-1mA  | A3         |
| 4-20mA   | A4         |
| <b>2. DIGITAL INPUT (Dry Contact) / OUTPUT</b> | <b>DIO</b> |
| Relay Output (Form A) 250VAC/5A                | R          |
| Solid State Relay Output (Form A) 250VAC/0.1A  | S          |
| <b>3. COMMUNICATIONS</b>                       | <b>COM</b> |
| Ethernet (TCP/IP)                              | ETH        |
| PROFIBUS                                       | PRO        |

AO OR DIO OR COM