



## Billion SG3130 Smart Power Meter

**Ethernet-enabled revenue class multifunction meter for power measurement, power quality analysis, and power usage reporting**

- Class 0.5 bi-directional energy and full power parameters measurement.
- Block or Rolling power demand measurement.
- THD, individual harmonics, and sag/swell power quality records.
- Data logging for alarm, sag, swell events with time-stamped.
- Report generation for daily and monthly power usage including kWh, Demand, peak THD, peak voltage, max/min Kw, etc.
- Communication interfaces : Ethernet, RS485
- Communication protocol: Modbus over TCP/IP for Ethernet, or Modbus for RS485.
- Up to 4 channels of re-transmission analog outputs for field integration.
- 12 digital inputs for power system status monitoring.
- 2 digital relays for kWh pulse or alarm outputs.
- Automatic detection of voltage & current wiring
- Multi-language support

### Certificate

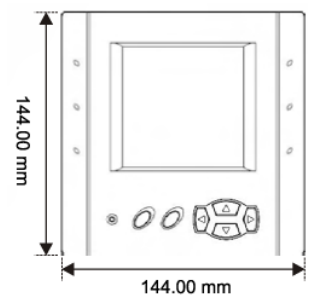
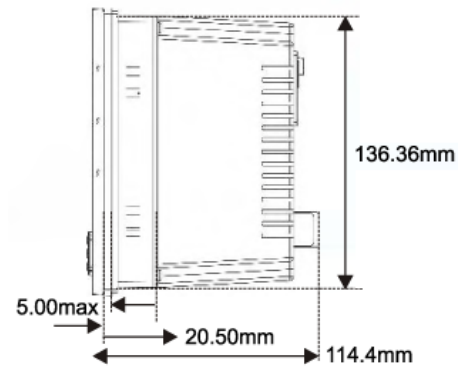
#### 1. LVD Test Report: EN61010-1

#### 2. CE Test Report:

EN61326 Conducted Emission	EN61000-4-4 Electrical Fast Transient/Burst
EN61326 Radiated Emission	EN61000-4-5 Surge
EN61000-3-2 Harmonic Current Emission	EN61000-4-6 Conducted Susceptibility
EN61000-3-3 Voltage Fluctuation & Flicker	EN61000-4-8 Power Frequency magnetic Field
EN61000-4-2 Electrostatic Discharge	EN61000-4-11 Voltage Dips and Interruption
EN61000-4-3 Radiated Susceptibility	

#### 3. FCC Test Report: Class A and CISPR 22

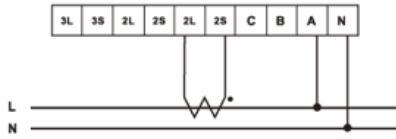
#### 4. Rain and Dust Test Report: Panel IP54



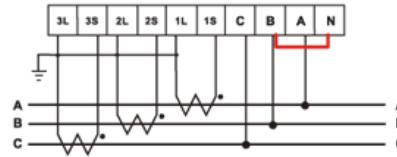
▲ Panel cutout area is 138x138mm

## Wiring Diagram

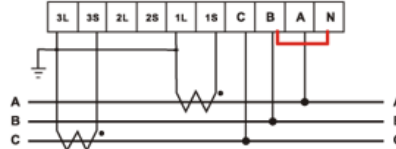
### 1P2W/1CT



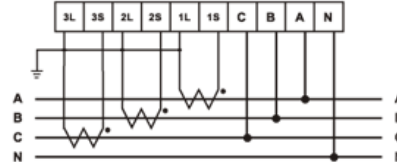
### 3P3W/3CT



### 3P3W/2CT



### 3P4W/3CT



## Specifications

### Power Parameters Measure

- Current: 3 phase, neutral, accuracy 0.1%
- Voltage: 3 phase phase-phase, phase-neutral, accuracy 0.1%
- Frequency: 47/63 Hz
- Total power: Active, reactive, apparent power, accuracy 0.5%
- Power per phase: Active, reactive, apparent power, accuracy 0.5%
- Power factor (True and Fundamental): Total, per phase.

### Energy Measure

- Energy: Active, reactive, apparent energy, accuracy 0.5%
- Bi-directional energy: Deliver and receive kWh, kVARh, kVAh

### Demand Measure\*

- Bi-directional Block/Rolling demand

### Report and Event Logging\*

- Report: Daily report: this day, yesterday  
Regular report: this period, last reset
- Event logging: Sag, swell, alarm logging

### Power Quality Measure\*

- Harmonic : V, I THD and individual harmonics
- Sag/Swell : Configurable setting points

### Display and Input/Output

- Panel display: Mono 128 x 128 STN-LCD
- Digital input: 12 channel dry contact inputs
- Digital output: 2 channel relay for alarm or kWh pulse output
- Analog input\*: 4 channel 4-20mA input
- Analog output: 4 channel 4~20 mA for V, I, kW, kVA, Kvar
- Voltage connection: not exceed 600 V
- Current connection: 0~5A
- Power supply: 86~242 Vac or 100-300VDC

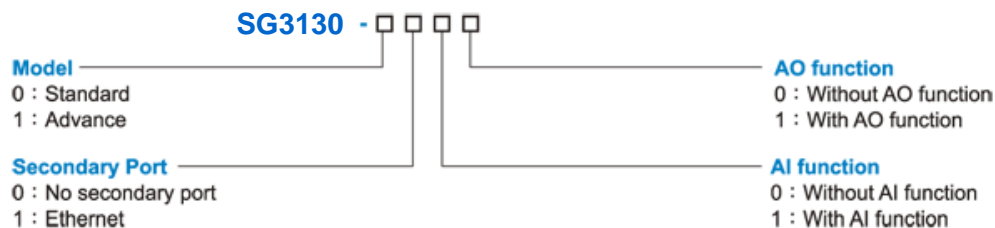
### Communications

- Primary port: RS485 Modbus protocol
- Secondary port\*: Ethernet: 10/100 Mbps, Modbus over TCP/IP protocol

### Environmental and Physical

- Operation temperature: -10°C to 55°C
- Storage temperature: -25°C to 60°C
- Humidity: 20 to 80%RH (non-condensing)
- Dimensions: 144mm (L) x 144mm (W) x 94mm (H)

## Ordering Code



### Notes:

1. \*: Only for advanced mode.
2. Specifications in this datasheet are subject to change without prior notice.

V.08152011