

Electro Industries Power Meter

Shark ▶

- Multifunction TRMS Measurements
- Meets ANSI C12.20 and IEC 687 0.2% Accuracy Class
- Bright 0.56" 3 Line LED Display
- % of Load Bar for Analog Perception
- Programmable CT & PT Ratios
- Modbus and DNP Protocol
- RS-485, Ethernet or fiber communication



| Parameter | Accuracy | Display |
|--------------------|----------|------------------------------|
| Voltage L-L & L-N: | 0.1% | 0-9999 V or kV, scalable |
| Current: | 0.1% | 0-9999 Amps or kAmps |
| ± Watts | 0.2% | 0-9999 Watts, kWatts, MWatts |
| ±Wh | 0.2% | 5 to 8 Digits Programmable |
| ±VARs | 0.2% | 0-9999 VARs, kVARs, MVARs |
| ±VARh | 0.2% | 5 to 8 Digits Programmable |
| VA | 0.2% | 0-9999 VA, kVA, MVA |
| VAh | 0.2% | 5 to 8 Digits Programmable |
| PF | 0.2% | ±0.5 to 1.0 |
| Frequency | 0.01 Hz | 45 to 65 Hz |
| %THD | 1.0% | 0 to 100% |
| % Load Bar | 1-120% | 10 Digit Resolution Scalable |

Real time measurements for all parameters; plus Min/Max for V, A, W, VAR, VA, PF, f, %THD: Average for A, W, VAR, VA, PF

SPECIFICATIONS

| | |
|----------------------|---|
| System: | 3 Element Y, 2.5 Element Y, 2 Element Δ, 4 Wire Δ |
| Voltage Input: | 0-416VAC L-N, 0-721VAC L-L |
| Max. Burden: | 0.36VA per phase at 600V, 0.014VA at 120V |
| Current Withstand: | 100A for 10sec, 300A for 3sec, 500A for 1sec |
| Max. Burden: | 0.005VA per phase at 11A |
| Pass-thru Wire: | 0.177" (4.5mm) max dia. |
| Isolation: | All Inputs and Outputs are galvanically isolated to 2500VAC |
| Operating Temp: | -30 to +70°C, <95% RH non-condensing |
| Sampling: | 400+ Samples/Cycle, all channels measured simultaneously |
| Update Rate: | 1sec, except 100msec on Watts, VAR, VA |
| Power Supply: | 90-265VAC / 100-370VDC, 10VA or 18-60VDC |
| Communications: | RS485 Port (rear), IrDA (faceplate), Ethernet 10/100BaseT |
| Protocol: | Modbus RTU, ASCII or DNP 3.0 |
| Dimensions, Ratings: | 4.85"H x 4.82"W x 4.25"D, NEMA12 FACE |

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: EI/Shark100-60-10-V2-D2-485P-X

| EI/SHARK | A | B | C | D | E | F | G |
|----------|---------------------|---|---------------------------|---|---|---|---|
| A | Model* | | | | | | |
| | 100 | Power Meter/Transducer with LED Display | | | | | |
| | 200 | Advanced Power Meter/Transducer | | | | | |
| B | Frequency | | | | | | |
| | 50 | 50Hz | | | | | |
| | 60 | 60Hz | | | | | |
| C | Current Input Class | | | | | | |
| | 10 | 0-11A (5A nominal) | | | | | |
| | 2 | 0-2A (1A nominal) | | | | | |
| D | Functions | Model 100 | Model 200 | | | | |
| | V1 | Volts/Amps | V, A, Freq, Power, Energy | | | | |
| | V2 | V1 + Power & Frequency | V1+ 2M Datalogging | | | | |
| | V3 | V2 + Energy Counters | V2 + Harmonic Analysis | | | | |
| | V4 | V3 + Harmonics & Limits | V3 + Limit & Control | | | | |
| E | Power Supply | | | | | | |
| | D2 | 90-265VAC, 100-370VDC | | | | | |
| | D | 18-60VDC | | | | | |
| F | Communications | | | | | | |
| | X | None | | | | | |
| | 485P | RS-485 & Pulse (standard on Model 200) | | | | | |
| | INP10 | Ethernet & Pulse | | | | | |
| G | Mounting | | | | | | |
| | X | ANSI | | | | | |
| | DIN | DIN mounting brackets | | | | | |

* Add suffix T for Transducer only (DIN mount) without display

Simpson Digital Power Meters

- Measure up to 23 Parameters
- Standard 1/4 DIN Case
- Wide Backlit LCD Display
- Four Keys Select All Parameters
- Software Detection/Correction of Wiring Errors



| Parameter | G100 | G200 | G300 | G400 |
|---------------------|------|------|------|------|
| Phase Amps | • | • | • | • |
| Phase Volts | • | • | • | • |
| Line Volts | • | • | • | • |
| Per phase PF | • | • | • | • |
| Per phase kW | • | • | • | • |
| Per phase kvar | | | • | • |
| Per phase kVA | | | • | • |
| 3 Phase PF | • | • | • | • |
| 3 Phase kW | • | • | • | • |
| 3 Phase kvar | | | • | • |
| 3 Phase kva | | | • | • |
| Frequency | • | • | • | • |
| kWh | | • | • | • |
| Capacitive kvarh | | | • | • |
| Inductive kvarh | | | • | • |
| Total kvarh | | | • | • |
| Import kWh | | | • | • |
| Current Demand | • | • | • | • |
| Voltage Demand | • | • | • | • |
| kW Demand | | | • | • |
| Peak Amps | | | • | • |
| Peak Phase Volts | | | • | • |
| Peak Current Demand | • | • | • | • |
| Peak Voltage Demand | • | • | • | • |
| Neutral Current | | | • | • |

SPECIFICATIONS

| | |
|------------------------|--|
| System: | 3 phase, 3 or 4 wire, unbalanced load |
| Input: | 0.5% to 120% of range |
| Frequency: | 45-65Hz |
| Harmonics: | up to 20th harmonic |
| Operating Temperature: | -10°C to 65°C, <75% RH |
| Accuracy: | Current: ±0.2% of full scale Voltage: ±0.3% of full scale Watts: ±0.4% of full scale |

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: SI/G100-1-3-1-0

| A | B | C | D | E |
|---|---------------|----------------------|---|---|
| A | Basic Unit | | | |
| | SI/G100 | GIMA 100 Meter | | |
| | SI/G200 | GIMA 200 Meter | | |
| | SI/G300 | GIMA 300 Meter | | |
| | SI/G400 | GIMA 400 Meter | | |
| B | Power | | | |
| | 1 | 115VAC | | |
| | 2 | 230VAC | | |
| C | Voltage Input | | | |
| | 1 | 120/208V | | |
| | 2 | 120/240V | | |
| | 3 | 277/480V | | |
| | 4 | 63/110V | | |
| D | Current Input | | | |
| | 1 | 5 Amp | | |
| E | Other | | | |
| | 0 | None | | |
| | 1 | ModBus Communication | | |