



## **WattDOG** Specifications

### **General Specifications**

#### **Display:**

- Graphic LCD with Touch Screen control
- Backlight and Font color selectable
- Viewing area: 2.8"x2.1"(71.6mm x 54mm)
- Operating Temperature: -30°C to +70°C (-22°F-158°F) Display will be sluggish below -20°C)
- Storage Temperature: -40°C to +85°C (-40°F-185°F)
- Backlight Brightness Control: Selectable using Touch Screen Control
- Screen Image selection options

#### **Meter Power:**

- 85VAC to 265VAC
- 5VDC to 48VDC
- Custom power options available; consult factory
- Burden: <300maDC (1Watt)

#### **Mechanical:**

- Panel Version: Overall dimensions: 3.72" x 3.72" x 3.9"
- Panel Cut Out: 3.59" x 3.59"
- Panel Mount: "L" Bracket Mounting Clip
- Meter Box: Overall dimensions: 6" x 6" x 4"
- Meter Box mounting via legs on side of box.
- UL rated NEMA 1 Meter Box for single meter installations
- NEMA 4 rated enclosures available; Consult Factory

#### **Inputs:**

- Voltage: Single Row Screw Terminal Barrier Strip
  - Current: Single Row Screw Terminal Barrier Strip
  - Auxiliary Power: Included on Voltage Barrier Strip
  - Max Terminal Voltage: 480VAC 50/60HZ Phase to Phase; Panel Mount version
  - Max Terminal Voltage: 600VAC 50/60HZ Phase to Phase; Meter Box version
  - 5Amps AC Nominal Terminal Current per channel; 10Amp Maximum both versions
- Optional Current Input devices; Consult factory

#### **Meter Measurement Specifications:**

- Wiring Configurations: Single Phase 2 wire; Single Phase 3 wire (Split Phase); 3 Phase 3 Wire; 3 Phase 4 Wire
- Line Frequency 50/60HZ (400HZ Optional)
- AC Voltage measurement: RMS
- AC Current measurement: RMS

#### **Meter Measurement Accuracy:**

- Voltage: ± 0.25% Typical
- Current: ± 0.25% Typical
- kWh: ± 0.25% Typical (± 0.15% optional)
- Active Energy measurement Error per Phase: ±0.1% Typical over a 1000:1 dynamic range
- Phase error between channels with:
  - PF= 0.8 Capacitive; ± 0.05°max
  - PF= 0.5 Inductive; ± 0.05°max
- Current Sampling Rate per channel: 8KS/s

**Meter Measurement Accuracy:**

- Voltage Sampling Rate per channel: 8KS/s
- Guaranteed Accuracy: 1 year from date of purchase
- NIST Traceability available, consult factory

**Sampling Rate:**

- Voltage: 128 Samples per second all channels
- Current: 128 Samples per second all channels
- Meter response: 300milliseconds all channels

**Communications:**

- USB
- Ethernet; 100BaseT; RJ45 Receptacle TC/IP
- RS485
- Wireless
- Other communication protocols available consult factory

**Graphs:**

**Viewable on Meter**

- Demand Power Graph
- Voltage vs. Time Graph
- Current vs. Time Graph

**Measured Parameters**

- RMS Volts
- RMS Current
- Power Factor
- Demand Power
- Apparent Power
- Reactive Power
- Kilowatts
- Kilowatt Hours
- Ave. Cost per KWh

**Viewable Items in Software**

- Peak Off-Peak Cost Graph Demand Power Graph
- Voltage vs. Time Graph
- Current vs. Time Graph
- Peak / Off-Peak Cost Graph
- Demand Power Graph
- Demand verses Time/Date
- Sag or Surge event mark tabular or graphic. (Time, Magnitude, date)
- Ability to set event threshold limits.
- Read each WattDOG meter independently on installed network
- Sum all collected data
- Software export to EXCEL or other data base programs
- Consult factory for custom applications.

**WattVIEW Reports**

- Executive Summary
- Image of Circuit configuration
- Graph of Power consumed per phase
- Graph of Demand Power per phase
- Graph of Peak, Off Peak Power
- Graph of Power Voltage Current

Specifications are based on the present system design and could change without notice as advancements in technology occurs. Check HMT Web site for latest Firmware and Software upgrades