

## FEATURES

- True RMS measurement of AC Current and AC Voltage
- Large 4000 count LCD display with a bargraph and a bright white LED backlight.
- **Wireless transmitter with USB interface**
- Wide measuring range from 0.01 AC/DC up to 1000A AC/DC
- Measures AC and DC Voltage up to 600 volts
- Measures resistance from 0.1Ω up to 40MΩ
- Capacitance measurements up to 40mF
- Temperature measurement from -40°C +1000°C and -40°F to + 1832°F
- Designed to the international safety standard IEC61010 CAT III 600V/CAT II 1000V, Pollution degree 2
- Auto Power Off after approximately 20 minutes to conserve battery life
- Continuity Buzzer and Diode Test
- Frequency measurement up to 4kHz
- Peak Hold to record the minimum and maximum readings for current and voltage
- Data Hold switch used to freeze reading on display

## GENERAL SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| <b>Clamp Size</b>             | : 30mm Opening Approx.  |
| <b>Diode Test</b>             | : Test Current of 0.3mA typical<br>Open circuit voltage 1.5V DC |
| <b>Continuity Check</b>       | : Threshold <35Ω;<br>Test current < 1mA                         |
| <b>Low Battery Indication</b> | : "EOL" is displayed  |
| <b>Overrange Indication</b>   | : "OL" is displayed   |
| <b>Measurement Rate</b>       | : 2 per second, nominal   |
| <b>Input Impedance</b>        | : 10MΩ, (VDC and VAC)   |
| <b>Display</b>                | : 3-3/4 Digits, 4000 count<br>Backlit LCD                       |
| <b>AC Current</b>             | : 50/60Hz (AAC)   |
| <b>AC Voltage Bandwidth</b>   | : 50/60Hz (VAC)   |
| <b>Operating Temperature</b>  | : -10°C to 50°C (-14°F to 122°F)                                |
| <b>Storage Temperature</b>    | : -30° to 60°C (-22°F to 140°F)                                 |
| <b>Relative Humidity</b>      | : Up to 85%   |
| <b>Over Voltage</b>           | : Category III 600V   |
| <b>Battery</b>                | : One DC 9V IEC6F22 1604<br>Battery                             |
| <b>Auto Power Off</b>         | : Approx 20 minutes   |
| <b>Dimensions</b>             | : 229 x 80 x 49mm   |
| <b>Weight</b>                 | : 303g  |

## TECHNICAL SPECIFICATIONS

### DC Current

| Range | Measuring Range | Resolution | Accuracy (% of Reading) |
|-------|-----------------|------------|-------------------------|
| 40A   | 0 to 40.00A     | 0.01A      | ± (2.8% + 10 digits)    |
| 400A  | 0 to 400.0A     | 0.1A       | ± (2.8% + 8 digits)     |
| 1000A | 0 to 1000A      | 1A         | ± (3.0% + 8 digits)     |

### AC Current T-RMS

| Range | Measuring Range | Resolution | Accuracy (% of Reading) |
|-------|-----------------|------------|-------------------------|
| 40A   | 0 to 40.00A     | 0.01A      | ± (2.8% + 10 digits)    |
| 400A  | 0 to 400.0A     | 0.1A       | ± (2.8% + 8 digits)     |
| 1000A | 0 to 1000A      | 1A         | ± (3.0% + 8 digits)     |

### DC Voltage

| Range | Measuring Range | Resolution | Accuracy (% of Reading) |
|-------|-----------------|------------|-------------------------|
| 400mV | 0 to 400.0 mV   | 0.1mV      | ± (0.8% + 2 digits)     |
| 4V    | 0 to 4.000V     | 0.001V     |                         |
| 40V   | 0 to 40.00V     | 0.01V      | ± (1.5% + 2 digits)     |
| 400V  | 0 to 400.0V     | 0.1V       |                         |
| 600V  | 0 to 600V       | 1V         | ± (2.0% + 2 digits)     |

### AC Voltage T-RMS

| Range | Measuring Range | Resolution | Accuracy (% of Reading) |
|-------|-----------------|------------|-------------------------|
| 400mV | 0 to 400.0 mV   | 0.1mV      | ± (1.0% + 10 digits)    |
| 4V    | 0 to 4.000V     | 0.001V     |                         |
| 40V   | 0 to 40.00V     | 0.01V      | ± (1.5% + 8 digits)     |
| 400V  | 0 to 400.0V     | 0.1V       |                         |
| 600V  | 0 to 600V       | 1V         | ± (2.0% + 8 digits)     |

Note: No Autoranging on 400mV AC Range

### Resistance

| Range | Measuring Range | Resolution | Accuracy (% of Reading) |
|-------|-----------------|------------|-------------------------|
| 400Ω  | 0 to 400.0Ω     | 0.1Ω       | ± (1.0% + 4 digits)     |
| 4kΩ   | 0 to 4.000kΩ    | 1Ω         |                         |
| 40kΩ  | 0 to 40.00kΩ    | 10Ω        | ± (1.5% + 2 digits)     |
| 400kΩ | 0 to 400.0kΩ    | 100Ω       |                         |
| 4MΩ   | 0 to 4.00MΩ     | 1kΩ        | ± (2.5% + 5 digits)     |
| 40MΩ  | 0 to 40.00 MΩ   | 10kΩ       |                         |

### Capacitance

| Range | Measuring Range | Resolution | Accuracy (% of Reading) |
|-------|-----------------|------------|-------------------------|
| 4nF   | 0 to 4.000nF    | 0.001nF    | ± (5.0% + 30 digits)    |
| 40nF  | 0 to 40.00nF    | 0.01nF     |                         |
| 400nF | 0 to 400.0nF    | 0.1nF      | ± (3.0% + 5 digits)     |
| 4μF   | 0 to 4.000μF    | 0.001μF    |                         |
| 40μF  | 0 to 40.00μF    | 0.01μF     | ± (4.0% + 10 digits)    |
| 400μF | 0 to 400.0μF    | 0.1μF      |                         |
| 4mF   | 0 to 4.000mF    | 0.001mF    | ± (4.5% + 10 digits)    |
| 40mF  | 0 to 40.00mF    | 0.01mF     |                         |

### Frequency

| Range | Measuring Range | Resolution | Accuracy (% of Reading)                       |
|-------|-----------------|------------|---|
| 4kHz  | 0 to 4.000kHz   | 0.001kHz   | ± (1.5% + 2 digits)<br>Sensitivity: 5Vrms min |

### Temperature

| Range | Measuring Range | Resolution | Accuracy (% of Reading) |
|-------|-----------------|------------|-------------------------|
| °C    | -40°C ~ 1000°C  | 1°C        | ± (2.5% + 3°C)          |
| °F    | -40.0°F-1832°F  | 1°F        |                         |

### RF Specifications

| Specification            | Transmitter                     | Receiver Unit |
|--------------------------|---------------------------------|---------------|
| Display                  | USB                             | LED           |
| Controls                 | Backlight/USB                   |               |
| Carrier Freq. (ISM Band) | 916.0MHz                        | N/A           |
| RF O/P Power             | 10dBm                           | -109dBm       |
| Communication Distance   | > 100m in an unobstructed field | N/A           |



\*Technical Specifications & Appearance are subject to change without prior notice