

# AC / DC 100kHz TRMS DIGITAL MULTIMETER Model- KM 789

THINK SAFETY  
THINK **KUSAM-MECO®**

## FEATURES :

- Auto Hold
- VFD
- BeepLit™ Continuity
- Record MAX, MIN, & AVG readings
- Crest (Instantaneous Peak hold) MAX & MIN readings
- Relative Zero mode
- Data Hold
- Backlighted LCD display
- BeepJack™ audible & visible input warning
- %4-20mA loop current readings
- dBm readings
- T1-T2 differential temperature readings

**NEW**

**8KV  
Transient  
Protection**

**dBm  
readings**



Preliminary Data

## GENERAL SPECIFICATION:

|                                |                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Sensing</b>                 | AC and AC+DC True RMS                                                                                           |
| <b>Display</b>                 | 4-5/6 digits 60,000 counts.                                                                                     |
| <b>Polarity</b>                | Automatic                                                                                                       |
| <b>Update Rate</b>             | 4-5/6 digits: Max 5 per second nominal. 31 Segment Bar-graph: 50 per second max                                 |
| <b>Operating Temperature</b>   | -20°C to 55°C continuous operating (except on A function, see Electrical Specifications below for more details) |
| <b>Relative Humidity</b>       | Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 55°C   |
| <b>Storage Temperature</b>     | -20°C to 60°C, < 80% R.H. (with battery removed)                                                                |
| <b>Altitude</b>                | Operating below 2000m                                                                                           |
| <b>Temperature Coefficient</b> | nominal 0.10 x (specified accuracy)/ °C @ (-20°C ~ 18°C or 28°C ~ 55°C), or otherwise specified                 |
| <b>Power Consumption</b>       | 10mA typical for AC & AC+DC Voltage / Current functions; 8mA typical for other functions                        |
| <b>Low Battery</b>             | Below approx. 3.7V                                                                                              |
| <b>APO Timing</b>              | Idle for 15 minutes                                                                                             |
| <b>APO Consumption</b>         | 15µA typical.                                                                                                   |
| <b>Power Supply</b>            | 1.5V AAA Alkaline battery x 3                                                                                   |
| <b>Dimension</b>               | L 193mm X W 89mm X H 51mm                                                                                       |
| <b>Weight</b>                  | Approx. 635gm                                                                                                   |
| <b>Accessories</b>             | Test lead pair, User's manual, Bkp60 banana plug K-type thermocouple x 1                                        |
| <b>Optional Accessories</b>    | BKB32 banana plug to type-K socket plug adaptor, BMH-02 magnetic hanger strap                                   |

All Specifications are subject to change without prior notice.

**SAFETY :**

|                             |                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safety</b>               | Double insulation per IEC/UL/EN/BS EN 61010-1 Ed. 3.0, IEC/UL/EN/ 61010-2-030 Ed. 1.0, IEC/UL/EN 61010-2-033 Ed. 1.0, IEC/UL/EN 61010-031 Ed.2.0 and the corresponding CAN/CSA-C22.2 regulations to Measurement Categories III 1000V AC & DC and Category IV 600V AC & DC |
| <b>E.M.C.</b>               | Meets EN61326-1:2013                                                                                                                                                                                                                                                      |
| <b>Overload Protections</b> | $\mu$ A & mA: 0.4A/1000V DC/AC, IR 30kA or better, F fuse                                                                                                                                                                                                                 |
|                             | A: 11A/1000V DC/AC, IR 20kA or better, F fuse                                                                                                                                                                                                                             |
|                             | V: 1100V DC/AC rms                                                                                                                                                                                                                                                        |
|                             | mV, $\Omega$ & Others: 1000 V DC/AC rms                                                                                                                                                                                                                                   |
| <b>Pollution degree</b>     | 2                                                                                                                                                                                                                                                                         |
| <b>Transient protection</b> | 8kV (1.2/50 $\mu$ s surge)                                                                                                                                                                                                                                                |

**ELECTRICAL SPECIFICATIONS : KM 789**

Accuracy is  $\pm$  (% reading digits + number of digits) or otherwise specified, at 23°C  $\pm$  5°C & less than 75% relative humidity. Maximum Crest Factor <1.6:1 at full scale & < 3.2:1 at half scale, and with frequency components fall within the specified frequency bandwidth for non-sinusoidal waveforms.

**DC VOLTAGE**

| Range     | Resolution | Accuracy                 |
|-----------|------------|--------------------------|
| 600.00 mV | 0.01 mV    | $\pm(0.03\%rdg + 2dgst)$ |
| 6.0000 V  | 0.0001 V   |                          |
| 60.000 V  | 0.001 V    |                          |
| 600.00 V  | 0.01 V     | $\pm(0.05\%rdg + 5dgst)$ |
| 1000.0 V  | 0.1 V      | $\pm(0.15\%rdg + 5dgst)$ |

**Input Impedance :** 10M $\Omega$ , 75pF nominal  
(280pF nominal for 600mV range)

**VFD AC VOLTAGE**

| Range         | Resolution | Accuracy <sup>1)</sup>           |
|---------------|------------|----------------------------------|
| 10Hz ~ 200Hz  |            |                                  |
| 600.00 V      | 0.01 mV    | ±(4%rdg + 50dgts)                |
| 1000.0 V      | 0.1 V      |                                  |
| 200Hz ~ 440Hz |            |                                  |
| 600.00 V      | 0.01 mV    | ±(10%rdg + 50dgts) <sup>2)</sup> |
| 1000.0 V      | 0.1 V      |                                  |

<sup>1)</sup> Signal fundamental frequency > 440Hz is unspecified

<sup>2)</sup> Accuracy linearly decreases from 2% + 50d @ 200Hz to 10% + 50d @ 440Hz

**TEMPERATURE**

| Range         | Resolution  | Accuracy <sup>1)2)</sup> |
|---------------|-------------|--------------------------|
| -200.0~1090°C | 0.1°C ~ 1°C | 1.0% + 1.0°C             |
| -328.0~1994°F | 0.1°F ~ 1°F | 1.0% + 1.8°F             |

<sup>1)</sup> Accuracies assume meter interior has the same temperature (isothermal stage) of the ambient for a correct junction voltage compensation. Allow the meter and the type-K probe set to reach isothermal stage for a significant change of ambient temperature. It can take up to an hour for changes > 5°C.

<sup>2)</sup> Type-K thermocouple range & accuracy not included

**AC+DC VOLTAGE**

| Range                   | Resolution | Accuracy <sup>1)</sup>   |
|-------------------------|------------|--------------------------|
| <b>50Hz ~ 60Hz</b>      |            |                          |
| 600.00mV <sup>2)</sup>  | 0.01 mV    | $\pm(0.7\%rdg + 40dgts)$ |
| 6.0000 V                | 0.0001 V   |                          |
| 60.000 V                | 0.001 V    |                          |
| 600.00 V                | 0.01 V     |                          |
| 1000.0 V                | 0.1 V      |                          |
| <b>0Hz, 40Hz ~ 1kHz</b> |            |                          |
| 600.00 mV <sup>2)</sup> | 0.01 mV    | $\pm(1.2\%rdg + 40dgts)$ |
| 6.0000 V                | 0.0001 V   |                          |
| 60.000 V                | 0.001 V    |                          |
| 600.00 V                | 0.01 V     |                          |
| 1000.0 V                | 0.1 V      |                          |
| <b>1kHz ~ 7kHz</b>      |            |                          |
| 600.00 mV <sup>2)</sup> | 0.01 mV    | $\pm(2.0\%rdg + 50dgts)$ |
| 6.0000 V                | 0.0001 V   |                          |
| 60.000 V                | 0.001 V    |                          |
| 600.00 V                | 0.01 V     |                          |
| 1000.0 V                | 0.1 V      | Unspec'd                 |
| <b>7kHz ~ 20kHz</b>     |            |                          |
| 600.00mV <sup>2)</sup>  | 0.01 mV    | $\pm(2.5\%rdg + 70dgts)$ |
| 6.0000 V                | 0.0001 V   |                          |
| 60.000 V                | 0.001 V    |                          |
| 600.00 V <sup>3)</sup>  | 0.01 V     |                          |
| 1000.0 V                | 0.1 V      | Unspec'd                 |

<sup>1)</sup> Accuracy specified from 10% to 100% of range

<sup>2)</sup> Signal peak absolute values, including DC bias, less than 1000mV peak.

<sup>3)</sup> Bandwidth specified to 10kHz only for 600V range

**Input Impedance:** 10M $\Omega$ , 75pF nominal  
(140pF nominal for 600mV range). Residual reading less than 50 digits with test leads shorted.

All Specifications are subject to change without prior notice.

## ELECTRICAL SPECIFICATIONS : KM 789

### AC VOLTAGE

| Range                      | Resolution | Accuracy <sup>1)</sup> |
|----------------------------|------------|------------------------|
| 50Hz ~ 60Hz                |            |                        |
| 600.00 mV <sup>2)</sup>    | 0.01 mV    | ±(0.5%rdg + 30dgts)    |
| 6.0000 V                   | 0.0001 V   |                        |
| 60.000 V                   | 0.001 V    |                        |
| 600.00 V                   | 0.01 V     |                        |
| 1000.0 V                   | 0.1 V      |                        |
| 40Hz ~ 1kHz                |            |                        |
| 600.00 mV <sup>2)</sup>    | 0.01 mV    | ±(0.9%rdg + 30dgts)    |
| 6.0000 V                   | 0.0001 V   |                        |
| 60.000 V                   | 0.001 V    |                        |
| 600.00 V                   | 0.01 V     |                        |
| 1000.0 V                   | 0.1 V      |                        |
| 1kHz ~ 7kHz                |            |                        |
| 600.00 mV <sup>2)</sup>    | 0.01 mV    | ±(1.8%rdg + 40dgts)    |
| 6.0000 V                   | 0.0001 V   |                        |
| 60.000 V                   | 0.001 V    |                        |
| 600.00 V                   | 0.01 V     |                        |
| 1000.0 V                   | 0.1 V      | Unspec'd               |
| 7kHz ~ 20kHz               |            |                        |
| 600.00 mV <sup>2)</sup>    | 0.01 mV    | ±(2.0%rdg + 60dgts)    |
| 6.0000 V                   | 0.0001 V   |                        |
| 60.000 V                   | 0.001 V    |                        |
| 600.00 V <sup>4)</sup>     | 0.01 V     |                        |
| 1000.0 V                   | 0.1 V      | Unspec'd               |
| 20kHz ~ 100kHz             |            |                        |
| 600.00 mV <sup>2) 5)</sup> | 0.01 mV    | ±(4.0%rdg + 60dgts)    |
| 6.0000 V <sup>5)</sup>     | 0.0001 V   |                        |
| 60.000 V <sup>5)</sup>     | 0.001 V    |                        |
| 600.00 V                   | 0.01 V     | Unspec'd               |
| 1000.0 V                   | 0.1 V      |                        |

<sup>1)</sup> Accuracy specified from 10% to 100% of range

<sup>2)</sup> Signal peak absolute values, including DC bias, less than 1000mVpeak.

<sup>3)</sup> Accuracy adds 1% @ >5kHz ~ 7kHz

<sup>4)</sup> Bandwidth specified to 10kHz only for 600V range

<sup>5)</sup> Accuracy specified from 30% to 100% of range

**Input Impedance:** 10M $\Omega$ , 75pF nominal

(140pF nominal for 600mV range)

Residual reading less than 50 digits with test leads shorted.

### LoZ AUTO-DCV

| Range    | Resolution | Accuracy                              |
|----------|------------|---------------------------------------|
| 6.0000 V | 0.0001 V   | $\pm(0.5\%\text{rdg} + 30\text{dgt})$ |
| 60.000 V | 0.001 V    |                                       |
| 600.00 V | 0.01 V     |                                       |
| 1000.0 V | 0.1 V      |                                       |

#### LoZ Auto-DCV Threshold:

> +1.0VDC or < -1.0VDC nominal

#### LoZ Auto-DCV Input Impedance:

Initially approx. 2.1k $\Omega$ , 140pF nominal;

Impedance increases abruptly within a fraction

of a second as display voltage is above 50V (typical).

Ended up impedances vs display voltages typically are:

12k $\Omega$  @ 100V,

90k $\Omega$  @ 300V,

300k $\Omega$  @ 600V,

670k $\Omega$  @ 1000V

### AC CURRENT

| Range                 | Resolution   | Accuracy <sup>1)</sup>                | Burden Voltage |
|-----------------------|--------------|---------------------------------------|----------------|
| <b>40Hz ~ 3kHz</b>    |              |                                       |                |
| 600.00 $\mu$ A        | 0.01 $\mu$ A | $\pm(0.9\%\text{rdg} + 20\text{dgt})$ | 0.2mV/ $\mu$ A |
| 6000.0 $\mu$ A        | 0.1 $\mu$ A  |                                       | 2.0mV/mA       |
| 60.000mA              | 0.001 mA     |                                       |                |
| 600.00mA              | 0.01 mA      | $\pm(1.0\%\text{rdg} + 30\text{dgt})$ | 30mV/A         |
| 6.0000A               | 0.0001 A     |                                       |                |
| 10.000A <sup>2)</sup> | 0.001 A      |                                       |                |

<sup>1)</sup> Accuracy unspecified @ <10% of range

<sup>2)</sup> 10A continuous up to ambient 40°C only, and is <3 mins on per >15 mins off @ 40°C ~55 °C; >10A to 20A for <30 seconds on per >15 mins off

### AC+DC CURRENT

| Range                   | Resolution   | Accuracy <sup>1)</sup>                | Burden Voltage |
|-------------------------|--------------|---------------------------------------|----------------|
| <b>0Hz, 40Hz ~ 3kHz</b> |              |                                       |                |
| 600.00 $\mu$ A          | 0.01 $\mu$ A | $\pm(1.0\%\text{rdg} + 30\text{dgt})$ | 0.2mV/ $\mu$ A |
| 6000.0 $\mu$ A          | 0.1 $\mu$ A  |                                       | 2.0mV/mA       |
| 60.000mA                | 0.001 mA     |                                       |                |
| 600.00mA                | 0.01 mA      | $\pm(1.2\%\text{rdg} + 40\text{dgt})$ | 30mV/A         |
| 6.0000A                 | 0.0001 A     |                                       |                |
| 10.000A <sup>2)</sup>   | 0.001 A      |                                       |                |

<sup>1)</sup> Accuracy unspecified @ <10% of range

<sup>2)</sup> 10A continuous up to ambient 40°C only, and is <3 mins on per >15 mins off @ 40°C ~55 °C; >10A to 20A for <30 seconds on per >15 mins off

### DC CURRENT

| Range                         | Resolution   | Accuracy                                | Burden Voltage |
|-------------------------------|--------------|-----------------------------------------|----------------|
| 600.00 $\mu$ A <sup>12)</sup> | 0.01 $\mu$ A | $\pm(0.075\%\text{rdg} + 20\text{dgt})$ | 0.2mV/ $\mu$ A |
| 6000.0 $\mu$ A                | 0.1 $\mu$ A  | $\pm(0.075\%\text{rdg} + 20\text{dgt})$ | 0.2mV/ $\mu$ A |
| 60.000mA <sup>2)</sup>        | 0.001 mA     | $\pm(0.075\%\text{rdg} + 20\text{dgt})$ | 2.0mV/mA       |
| 600.00mA                      | 0.01 mA      | $\pm(0.15\%\text{rdg} + 20\text{dgt})$  | 2.0mV/mA       |
| 6.0000A                       | 0.0001 A     | $\pm(0.3\%\text{rdg} + 20\text{dgt})$   | 30mV/A         |
| 10.000A <sup>3)</sup>         | 0.001 A      | $\pm(0.3\%\text{rdg} + 30\text{dgt})$   | 30mV/A         |

<sup>1)</sup> Specified with Open-circuit-voltage (OCV) of Current-loop-under-test at >100 $\mu$ V.

<sup>2)</sup> The meter shows a few negative residue counts when the input is short-circuited, with OCV at zero volt. It is the nature of the internal protection circuit design, and will not affect measurement readings at nominal OCVs greater than 100 $\mu$ V in significant measurements.

<sup>3)</sup> 10A continuous up to ambient 40°C only, and is <3 mins on per >15 mins off @ 40°C ~ 55°C; >10A to 20A for <30 seconds on per >15 mins off

### HZ LOGIC LEVEL FREQUENCY

| Range               | Resolution          | Accuracy <sup>12)</sup> |
|---------------------|---------------------|-------------------------|
| 5.000Hz ~ 1.0000MHz | 0.001Hz ~ 0.0001MHz | 0.002% + 4d             |

<sup>1)</sup> Sensitivity: >3.0Vp square wave

<sup>2)</sup> Specified with Pulse Width > 0.5 $\mu$ s

All Specifications are subject to change without prior notice.

## ELECTRICAL SPECIFICATIONS : KM 789

### RESISTANCE

| Range                     | Resolution | Accuracy <sup>1)</sup> |
|---------------------------|------------|------------------------|
| 600.00 Ω                  | 0.01 Ω     | ±(0.085%rdg + 10dgts)  |
| 6.0000 kΩ                 | 0.0001kΩ   | ±(0.085%rdg + 4dgts)   |
| 60.000 kΩ                 | 0.001 kΩ   | ±(0.085%rdg + 4dgts)   |
| 600.00 kΩ                 | 0.01 kΩ    | ±(0.15%rdg + 4dgts)    |
| 6.0000 MΩ <sup>2)</sup>   | 0.0001 MΩ  | ±(1.5%rdg + 5dgts)     |
| 60.000 MΩ <sup>3,4)</sup> | 0.001 MΩ   | ±(2.0%rdg + 5dgts)     |
| 99.99 nS <sup>5)</sup>    | 0.01 nS    | ±(1.0%rdg + 10dgts)    |

#### Open Circuit Voltage:

< 1.3VDC (<1.5VDC for 600Ω range)

<sup>1)</sup> **Temperature Coefficient:** 0.20x(specified accuracy)/ °C @ (-20°C ~ 18°C or 28°C ~ 55°C)

<sup>2)</sup> **Constant Test Current:** 0.1μA Typical

<sup>3)</sup> **Constant Test Current:** 0.01μA Typical

<sup>4)</sup> Specified accuracy adds 0.5% @ >50MΩ

<sup>5)</sup> Specified accuracy adds 30d @ <10nS

### LoZ AUTO-ACV

| Range    | Resolution | Accuracy <sup>1)</sup> |
|----------|------------|------------------------|
| 6.0000 V | 0.0001 V   | ±(1.0%rdg + 40dgts)    |
| 60.000 V | 0.001 V    |                        |
| 600.00 V | 0.01 V     |                        |
| 1000.0 V | 0.1 V      |                        |

<sup>1)</sup> **Accuracy** specified from 10%~100% of range

#### LoZ Auto-ACV Threshold:

> 1.0VAC (50/60Hz) nominal

#### LoZ Auto-ACV Input Impedance:

Initially approx. 2.1kΩ, 140pF nominal;  
Impedance increases abruptly within a fraction of a second as display voltage is above 50V (typical). Ended up impedances vs display voltages typically are:

12kΩ @ 100V,  
90kΩ @ 300V,  
300kΩ @ 600V,  
670kΩ @ 1000V

### % DUTY CYCLE

| 5V Logic Frequency | Range Specified |
|--------------------|-----------------|
| 5Hz ~ 1kHz         | 0.10% ~ 99.99%  |
| 1kHz ~ 10kHz       | 1.00% ~ 99.00%  |
| 10kHz ~ 500kHz     | 20.00% ~ 80.00% |

**Accuracy :** 3d/kHz+2d

**Sensitivity:** >3.0Vp square wave

### DC LOOP CURRENT %4~20mA

4mA = 0% (zero); 20mA = 100% (span)  
Resolution: 0.01% Accuracy: ± 25d

### CAPACITANCE

| Range              | Resolution       | Accuracy <sup>1,2)</sup> |
|--------------------|------------------|--------------------------|
| 10.00 nF           | 0.01 nF          | ±(1.0%rdg + 10dgts)      |
| 100.0 nF ~ 1000nF  | 0.1 ~ 1 nF       | ±(1.0%rdg + 2dgts)       |
| 10.00 μF ~ 1.000mF | 0.01μF ~ 0.001mF | ±(1.8%rdg + 4dgts)       |
| 10.00 mF           | 0.01 mF          | ±(2.0%rdg + 4dgts)       |

<sup>1)</sup> Accuracies with film capacitor or better

<sup>2)</sup> Temperature Coefficient: 0.20 x (specified accuracy) / °C

@ (-20°C ~ 18°C or 28°C ~ 55°C)

### ~Hz LINE LEVEL FREQUENCY

| Function Range | Sensitivity (Sine RMS) | Range        |
|----------------|------------------------|--------------|
| 6 V            | 0.4 V                  | 10Hz ~ 50kHz |
| 60 V           | 4 V                    | 10Hz ~ 50kHz |
| 600 V          | 40 V                   | 10Hz ~ 30kHz |
| 1000 V         | 400 V                  | 10Hz ~ 5kHz  |
| VFD 600 V      | 40 V                   | 10Hz ~ 400Hz |
| VFD 1000 V     | 400 V                  | 10Hz ~ 400Hz |
| 600 μA         | 40 μA                  | 10Hz ~ 5kHz  |
| 6000 μA        | 400 μA                 | 10Hz ~ 5kHz  |
| 60 mA          | 4 mA                   | 10Hz ~ 5kHz  |
| 600 mA         | 40 mA                  | 10Hz ~ 5kHz  |
| 6 A            | 0.6 A                  | 10Hz ~ 3kHz  |
| 10 A           | 6 A                    | 10Hz ~ 3kHz  |

Accuracy : 0.05%+5d

### dBm FUNCTION

Range and accuracy are subject to ACmV, ACV and reference impedance selected.

#### Typical 600Ω reference impedance ranges:

**In ACmV:** -42.22 dBm to -2.22 dBm;

**In ACV :** -17.78 dBm to 62.22 dBm

**Input Impedance:** 10MΩ, 140pF nominal

Selectable reference impedance of 4, 8, 16, 32, 50, 75, 93, 110, 125, 135, 150, 200, 250, 300, 500, 600, 800, 900, 1000 & 1200Ω

### CREST mode (Instantaneous Peak Hold)

Accuracy: Specified accuracy ± 100 digits for

changes > 0.35ms in duration

Availability: Voltage and Current functions

Resolution: 6000 counts

### AutoHold Real-Read™

Accuracy: Specified accuracy ± 50 digits

Availability: Resistance, Continuity, LoZ AutoV,

VFD Volts, Voltage and Current functions

All Specifications are subject to change without prior notice.

## ELECTRICAL SPECIFICATIONS : KM 789

### RECORD mode (MAX MIN AVG)

| Function Mode Where Available | Added Uncertainty <sup>1)</sup> to Specified Accuracy | Min. Volts/Amps Signal Duration | REC Nominal Update Rate per Second |
|-------------------------------|-------------------------------------------------------|---------------------------------|------------------------------------|
| DC                            | ±30d                                                  | 300ms                           | 10                                 |
| AC                            | ±300d (±80d <sup>2)</sup> )                           | 460ms                           | 5 (10)                             |
| VFD                           | ±180d                                                 | 800ms                           | 5                                  |
| DC+AC                         | ±300d <sup>2)</sup>                                   | 2s                              | 1                                  |
| nS                            | –                                                     | –                               | 1                                  |
| Cx                            | –                                                     | –                               | Subject to Cx Values               |
| Hz, T1-T2                     | –                                                     | –                               | 2                                  |
| Ω, T1, T2, Others             | –                                                     | –                               | 5                                  |

<sup>1)</sup> Specified at Range Locked (Manual-ranging)

<sup>2)</sup> Specified at AC Inputs >15% of Range

### NON-CONTACT EF-DETECTION (NCV)

| Bar-Graph Indication | EF-H (Hi Sensitivity)       | EF-L (Lo Sensitivity) |
|----------------------|-----------------------------|-----------------------|
|                      | Typical Voltage (Tolerance) |                       |
| -                    | 25V (18V~45V)               | 60V (50V~140V)        |
| - -                  | 50V (30V~80V)               | 120V (100V~260V)      |
| - - -                | 80V (70V~160V)              | 230V (180V~400V)      |
| - - - -              | 120V (110V~250V)            | 400V (330V~490V)      |
| - - - - -            | 350V (>270V)                | 600V (>500V)          |

**Indication:** Bar-graph segments & audible beep tones proportional to the field strength

**Detection Frequency:** 50/60Hz

**Detection Antenna:** Top-left end of the meter

#### Probe-Contact EF-Detection (Single-pole):

For more precise indication of live wires, such as distinguishing between live and ground connections, use one single test probe to test via terminal COM for direct metal contact probing to achieve the most distinctive indications.

### BEEPLIT™ CONTINUITY TESTER

|                           |                     |
|---------------------------|---------------------|
| <b>Audible threshold:</b> | between 100Ω & 420Ω |
| <b>Response time</b>      | < 100μs             |
| <b>Audible Indication</b> | Beep Sound          |
| <b>Visible Response</b>   | LCD Backlight       |

### BEEPLIT™ DIODE TESTER

| Range   | Accuracy          | Test Current (Typical) |
|---------|-------------------|------------------------|
| 3.0000V | ±(1%rdg + 20dgts) | 0.35mA                 |

**Open Circuit Voltage :** <3.1VDC

**Short-Beep-Alert Threshold:** Drop Across 0.850V

**BeepLit™ continuous ON Threshold:** < 0.100V

**Audible Indication:** Beep Sound

**Visible Indication:** LCD Backlight

All Specifications are subject to change without prior notice.