

# Data sheet

## IDM 63N

### Digital Multimeter

#### FEATURE:

- 3200 count digital display
- 65 segments analog bargraph
- Autoranging and manual selection
- 0.5% basic DCV accuracy
- 1.5% basic ACV accuracy
- 1.8% basic Ohms accuracy
- 1.0% basic DCA accuracy
- 600V protection in every range
- Fast continuity beeper
- Diode test
- Display hold function
- MagilHolster™ feature
- CAT.III 600V Safety standard

**SPECIFICATION:**(All at 23°C ±5°C, ≤80% R.H.)

#### AC Voltage

| Range  | Resolution | Accuracy                   | Over Voltage Protection |
|--------|------------|----------------------------|-------------------------|
| 3.000V | 1mV        | ±(1.5%+5dgt)<br>30Hz~300Hz | 600V DC or 600V rms     |
| 30.00V | 10mV       | ±(1.5%+5dgt)<br>40Hz~500Hz |                         |
| 300.0V | 100mV      |                            |                         |
| 600V   | 1V         |                            |                         |

**Input Impedance:** 10MΩ// less than 100pF

**Conversion Type:** Average sensing RMS indicating

#### DC Voltage

| Range   | Resolution | Accuracy     | Over Voltage Protection |
|---------|------------|--------------|-------------------------|
| 300.0mV | 100μV      | ±(0.5%+2dgt) | 600V DC or 600V rms     |
| 3.000V  | 1mV        |              |                         |
| 30.00V  | 10mV       |              |                         |
| 300.0V  | 100mV      |              |                         |
| 600V    | 1V         |              |                         |

**Input Impedance:** 10MΩ

#### DC Current

| Range    | Resolution | Accuracy     | Burden Voltage | Overload Protection |
|----------|------------|--------------|----------------|---------------------|
| 300.0μA  | 0.1μA      | ±(1.0%+2dgt) | <4.5mV/μA@25°C | 600V DC or 600V rms |
| 3000.0μA | 1μA        |              |                |                     |

**20A for 30 seconds**

**Resistance**

| Range | Resolution | Accuracy       | Overload Protection |
|-------|------------|----------------|---------------------|
| 300Ω  | 0.1Ω       | ±(1% + 4dgt)   | 600V DC or 600V rms |
| 3KΩ   | 1Ω         | ±(0.8% + 2dgt) |                     |
| 30KΩ  | 10Ω        | ±(0.8% + 2dgt) |                     |
| 300KΩ | 100Ω       | ±(0.8% + 2dgt) |                     |
| 3MΩ   | 1KΩ        | ±(0.8% + 2dgt) |                     |
| 30MΩ  | 10KΩ       | ±(2.0% + 5dgt) |                     |

**Open Circuit Voltage:** 3.3V approx.

**Diode & Continuity**


**Continuity Beeper :** <20Ω, 2KHz tone buzzer

**Test Current:** 1.5mA max

**Open Circuit Voltage:** 3.3V max

**Overload Protection:** 600V DC/AC rms

**General**

|                                 |   |
|---------------------------------|---|
| <b>Sampling Rate:</b>           | 2 times/sec   |
| <b>Overload Indication:</b>     | “OL” or “-OL”   |
| <b>Low Battery Indication:</b>  |  |
| <b>Auto Power Off:</b>          | Approx 10 minutes after last operation  |
| <b>Operating Temperature:</b>   | 0°C~30°C (≤ 80% R.H.), 30°C~40°C (≤ 75% R.H.), 40°C~50°C (≤ 45% R.H.)             |
| <b>Storage Temperature:</b>     | -20°C~60°C  |
| <b>Temperature Coefficient:</b> | 0.2×(spec. Acc’y)/°C <18°C, >28°C   |
| <b>Safety:</b>                  | IEC 61010-1: CAT.III 600V, CAT.II 1000V   |
| <b>Power Requirement:</b>       | Two 1.5V Alkaline type AAA batteries  |
| <b>Battery Life:</b>            | 800hours(Alkaline)  |
| <b>Size:</b>                    | 80mm(W)×165mm(L)×36mm(H), with holster  |
| <b>Weight:</b>                  | 310g(Including battery)   |
| <b>Accessories:</b>             | Battery (installed), Test Leads and User Manual                                   |