



CT8030

Dual Display Professional Automotive Digital Multimeter

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CT8030 Main Features

- State of the Art ergonomic design and styling for easier handling and use
- Full autorange features
- Large selectable 4¾ or 3¾ digit main display
- 4 digits secondary display
- 42 segments analog bargraph
- DC Voltage measurement up to 1000 Volt
- DC Voltage measurement up to 750 Volt
- AC/DC Current measurement up to 10 A
- Tachometer function with inductive pickup measures from 30 to 20 000 RPM
- Dwell measurement in degrees from 0 to 360° or duty cycle from 0 to 100%
- Temperature measurement from -20°C to 1000°C or 0° to 1832°F (selectable °C or °F)
- Resistance measurement up to 40 MOhm
- Frequency measurement from 10 to 20 KHz
- Fuel Injection test measures pulse width from 0.05 to 250 mS, or duty cycle from 0 to 100% Oxygen Sensor test function
- Alternator test function
- Fault Code Reader
- DTC Decoder
- Diode test
- Continuity Test
- Overload protection
- Soft holster for instrument protection
- Auto power off

CT8030 applications

- Measure engine RPM, ignition dwell angle, and temperature of exhaust manifold, cooling system, air conditioning, heating system, catalytic converter, etc.
- Measure output in sensors like Oxygen (O2), Coolant Temperature, Throttle Position (TPS), Manifold Air, Pressure (MAP), Manifold Air Flow (MAF), etc.
- Check grounds, Voltage drops and continuity across Connectors, Wires, Cables, Relays Contacts, Lamps, Switches, etc.
- Check components like Alternator, Diodes, Relays Coils, Condensers, Ignition Coils, Spark Plug Wires, Magnetic Pick-ups, Motors, Switches, Fuses, etc.
- An essential tool for all around troubleshooting of electrical and electronic circuit and systems.

Ergonomic Features:

- The smaller and ergonomic profile compared with previous models makes handling and operation easier and more convenient
- Single knob selects function and range
- Rugged plastic enclosure
- Soft anti-slip rubber holster protects the instrument against impacts and chemicals
- Large easy to read 1/2" (12.5 mm) digits display
- Design allows comfortable hand holding or resting at convenient places horizontally or at an angle by using the stand at the back of the holster

For use in:

Electronic and electrical circuits - Automobiles - Trucks - Trailers - Boats - RVs - All 0 to 600 Volt AC/ DC powered circuits.

Technical Specifications : **General Specifications:**

- **Display:**
 - 4¾ digits main display
 - 4 digits secondary display
 - 42 Segments analog bargraph (20 updates/Second)
Backlight
 - Automatic(-) negative polarity indicator
 - Automatic Zeroing
 - Automatic over-range indication
 - Low battery indicator
- **Power Source:** One standard 9 Volt alkaline battery type NEDA 1604 IEC 6F 22
- **Physical dimensions (including holster) :**6.30" (H) x 3.22" (W) x 1.89" (D) - 160 mm x 82 mm x 48 mm
- **Weight:** Approximately 12.14 Oz (345 g) Including battery

Electrical Specifications:

- **DC Voltage:** 0 to ± 1000V, ±0.3% ± 2 dgts., 10MO input impedance
- **AC Voltage:** 0 to 750V, ±2.5% ± 5 dgts., 10MO input impedance, 50 to 500 Hz
- **DC Current:** 0 to ± 10A, ± 0.8 % ± 4 dgts.,
- **AC Current:** 0 to 10A, ± 0.8 % ± 4 dgts.
- **Resistance:** 0 to 40 MO ± 0.8% ± 5 dgts.,
- **Frequency:** 0 to 20 KHz, ± 0.01 % ± 2 dgts.
- **Tachometer:** 30 to 20000 RPM, ± 2 RPM
- **Dwell:** 0 to 360°, ± 1.2% krpm/cyl + 2d
- **Fuel Injector (pulse width):** 0.05 to 250 mS, ± 0.05 mS +1d
- **Oxygen Test:** Measures cross count up to 10/Second
- **Alternator Test:** Measures output voltage ripple, beeps if ripple exceeds 0.45V
- **Fault code reader:** Retrieves blink type fault codes
- **DTC Decoder:** Retrieves Impulse Code Diagnostic Trouble Codes
- **Diode test:** 2.4 ± 0.6 mA test current, 3.2 V max. test voltage
- **Continuity Test:** Audible indicator (Buzzer) with circuit resistance is below 100 Ohm
- **Temperature:** -20° to 1000°C or 0°F to 1832°F (±2% + 1 dgts.)