

DIGITAL INSULATION RESISTANCE METER  
HTC 8250



**DIGITAL INSULATION RESISTANCE METER** consists of medium and large scale integrated circuits. The output power of the watch is large and the output voltage level is a lot (with 6 voltage levels). DC voltage measurement range is 0~1000V, AC voltage measures range os 0~750V. DC current measurement range is 100pA~6mA. Capacitance measurement range is 10nF~50nF.

FEATURES :

- ✓ POLARIZATION INDEX (PI)
- ✓ DIELECTRIC ABSORPTION (DAR)
- ✓ AUTO POWER OFF (APO 15 MINUTES)
- ✓ USB INTERFACE
- ✓ HIGH VOLTAGE INDICATION
- ✓ HIGH RESOLUTION, EASY TO CARRY, STABLE PERFORMANCE
- ✓ SHOCKPROOF, DUSTPROOF, MOISTURE-PROOF STRUCTURE
- ✓ 4 BIT LARGE LCD 108MM × 65MM
- ✓ OBLIQUE WAVE TEST (RAMP) & FILTER TEST (FR)
- ✓ DATA STORAGE 500 GROUPS, DATA REVIEW FEATURES
- ✓ ALARM VALUE CAN BE SET
- ✓ BACKLIGHT CAN BE CONTROLLED
- ✓ SOFTWARE MONITORING, STORAGE DATA CAN BE UPLOADED TO COMPUTER, SAVE & PRINT

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TECHNICAL SPECIFICATION

| OUTPUT VOLTAGE | MEASURING RANGE | ACCURACY     | RESOLUTION |
|----------------|-----------------|--------------|------------|
| 100V (±10%)    | 0.05 MΩ ~0.5 MΩ | ±3%rdg±5dgt  | 0.001MΩ    |
|                | 0.5 MΩ ~5 MΩ    |              | 0.01MΩ     |
|                | 5 MΩ ~50 MΩ     |              | 0.1MΩ      |
|                | 50 MΩ ~500 MΩ   |              | 1MΩ        |
|                | 0.5GΩ ~5 GΩ     | ±10%rdg±5dgt | 0.01GΩ     |
|                | 5 GΩ ~50 GΩ     |              | 0.1GΩ      |
|                | 50 GΩ ~500 GΩ   | ±20%rdg±5dgt | 1GΩ        |
| 250V (±10%)    | 0.1 MΩ ~1 MΩ    | ±3%rdg±5dgt  | 0.001MΩ    |
|                | 1 MΩ ~10 MΩ     |              | 0.01MΩ     |
|                | 10 MΩ ~100 MΩ   |              | 0.1MΩ      |
|                | 100 MΩ ~1000 MΩ |              | 1MΩ        |
|                | 1 GΩ ~10 GΩ     | ±10%rdg±5dgt | 0.01GΩ     |
|                | 10 GΩ ~100 GΩ   |              | 0.1GΩ      |
|                | 100 GΩ ~1000 GΩ | ±20%rdg±5dgt | 1GΩ        |
| 500V (±10%)    | 0.2 MΩ ~2 MΩ    | ±3%rdg±5dgt  | 0.001MΩ    |
|                | 2 MΩ ~20 MΩ     |              | 0.01MΩ     |
|                | 20 MΩ ~200 MΩ   |              | 0.1MΩ      |
|                | 200 MΩ ~2000 MΩ |              | 1MΩ        |
|                | 2 GΩ ~20 GΩ     | ±10%rdg±5dgt | 0.01GΩ     |
|                | 20 GΩ ~200 GΩ   |              | 0.1GΩ      |
|                | 200 GΩ ~2000 GΩ | ±20%rdg±5dgt | 1GΩ        |
| 1000V (±10%)   | 0.5 MΩ ~5 MΩ    | ±3%rdg±5dgt  | 0.001MΩ    |
|                | 5 MΩ ~50 MΩ     |              | 0.01MΩ     |
|                | 50 MΩ ~500 MΩ   |              | 0.1MΩ      |
|                | 500 MΩ ~5000 MΩ |              | 1MΩ        |
|                | 5 GΩ ~50 GΩ     | ±10%rdg±5dgt | 0.01GΩ     |
|                | 50 GΩ ~500 GΩ   |              | 0.1GΩ      |
|                | 500 GΩ ~5000 GΩ | ±20%rdg±5dgt | 1GΩ        |
| 2500V (±10%)   | 1 MΩ ~10 MΩ     | ±3%rdg±5dgt  | 0.01MΩ     |
|                | 10 MΩ ~100 MΩ   |              | 0.1MΩ      |
|                | 100 MΩ ~1000 MΩ |              | 1MΩ        |
|                | 1 GΩ ~10 GΩ     |              | 0.01GΩ     |
|                | 10 GΩ ~100 GΩ   | ±10%rdg±5dgt | 0.1GΩ      |
|                | 100 GΩ ~1000 GΩ |              | 1GΩ        |
|                | 1 TΩ ~10 TΩ     | ±20%rdg±5dgt | 0.01TΩ     |
| 5000V (±10%)   | 2 MΩ ~20 MΩ     | ±3%rdg±5dgt  | 0.01MΩ     |
|                | 20 MΩ ~200 MΩ   |              | 0.1MΩ      |
|                | 200 MΩ ~2000 MΩ |              | 1MΩ        |
|                | 2 GΩ ~20 GΩ     |              | 0.01GΩ     |
|                | 20 GΩ ~200 GΩ   | ±10%rdg±5dgt | 0.1GΩ      |
|                | 200 GΩ ~2000 GΩ |              | 1GΩ        |
|                | 2 TΩ ~10 TΩ     | ±20%rdg±5dgt | 0.01TΩ     |

POWER : 12.6V RECHARGEABLE BATTERY

|             |                                                                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimension   | : H240 x W188x D85 mm                                                                                                                                        |
| Weight      | : Approx. 2750g.                                                                                                                                             |
| Accessories | : Meter, High Pressure Rod-Red, High voltage test line Black, Green each 1, Monitoring Software CD, USB communication line USB, Charger, Manual, Certificate |
| Qty         | : 2 Pcs. in a Box.                                                                                                                                           |

| RANGE | ACCURACY | RESOLUTION |
|-------|----------|------------|
|-------|----------|------------|

DC VOLTAGE

|               |               |      |
|---------------|---------------|------|
| 0.0V ~ 1000 V | ±5% rdg ±3dgt | 0.1V |
|---------------|---------------|------|

AC VOLTAGE

|              |               |      |
|--------------|---------------|------|
| 0.0V ~ 750 V | ±5% rdg ±3dgt | 0.1V |
|--------------|---------------|------|

DC CURRENT

|              |              |        |
|--------------|--------------|--------|
| 1mA~6mA      | ±5%rdg±2dgt  | 0.01mA |
| 100uA~1000uA |              | 1uA    |
| 10uA~100uA   |              | 0.1uA  |
| 1uA~10uA     |              | 0.01uA |
| 100nA~1000nA | ±10%rdg±5dgt | 1uA    |
| 10nA~100nA   |              | 0.1nA  |
| 1nA~10nA     |              | 0.01nA |
| 100pA~1000pA |              | 1pA    |

CAPACITANCE

|               |              |        |
|---------------|--------------|--------|
| 10uF ~50uF    | ±10%fs ±5dgt | 0.01uF |
| 1uF ~10uF     |              | 0.01uF |
| 100nF ~1000nF |              | 1nF    |
| 10nF ~ 100nF  |              | 0.1nF  |

Absorption ratio and polarization : Yes  
index measurement power

Power Consumption : Standby: 30mA Max (backlight off)  
Turn on backlight: 42mA Max  
Measure : 200mA Max(backlight off)

Insulation Resistance : ≥50MΩ (between Measuring line  
and housing)

Pressure Resistance : AC3kV/50Hz 1min