

DIGITAL INSULATION RESISTANCE METER

HTC 8251



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

DIGITAL INSULATION RESISTANCE METER
HTC 8251



TECHNICAL SPECIFICATION

OUTPUT VOLTAGE	MEASURING RANGE	ACCURACY	RESOLUTION
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	±10%rdg±5dgt	1MΩ
	1 GΩ ~10 GΩ		0.01GΩ
	10 GΩ ~100 GΩ		0.1GΩ
	100 GΩ ~1000 GΩ		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	±10%rdg±5dgt	1MΩ
	2 GΩ ~20 GΩ		0.01GΩ
	20 GΩ ~200 GΩ		0.1GΩ
	200 GΩ ~2000 GΩ		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	±10%rdg±5dgt	1MΩ
	5 GΩ ~50 GΩ		0.01GΩ
	50 GΩ ~500 GΩ		0.1GΩ
	500 GΩ ~5000 GΩ		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	±10%rdg±5dgt	0.01GΩ
	10 GΩ ~100 GΩ		0.1GΩ
	100 GΩ ~1000 GΩ		1GΩ
	1 TΩ ~10 TΩ		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	±10%rdg±5dgt	0.01GΩ
	20 GΩ ~200 GΩ		0.1GΩ
	200 GΩ ~2000 GΩ		1GΩ
	2 TΩ ~10 TΩ		0.01TΩ
10KV (±10%)	5 MΩ ~50 MΩ	±3%rdg±5dgt	0.01MΩ
	50 MΩ ~500 MΩ		0.1MΩ
	500 MΩ ~5000 MΩ		1MΩ
	5 GΩ ~50 GΩ	±5%rdg±5dgt	0.01GΩ
	50 GΩ ~500 GΩ		0.1GΩ
	500 GΩ ~5000 GΩ		1GΩ
	5 TΩ ~35 TΩ		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