

# CONSTANT®

Electronic test tools for every trade



# 1KV Digital Insulation Tester

## SPECIFICATIONS

### Insulation

OUTPUT VOLTAGE	RANGE	RESOLUTION	TEST CURRENT	ACCURACY	
50V (0 ~ 20%)	0 ~ 20MΩ	0.01MΩ	1mA @ 50K	± (3%+5)	
	20 ~ 50MΩ	0.1MΩ			
100V (0 ~ 20%)	0 ~ 20MΩ	0.01MΩ	1mA @ 100K	± (3%+5)	
	20 ~ 100MΩ	0.1MΩ			
250V (0 ~ 20%)	0 ~ 20MΩ	0.01MΩ	1mA @ 250K	± (3%+5)	
	20 ~ 200MΩ	0.1MΩ			
	200 ~ 250MΩ	1MΩ			
500V (0 ~ 20%)	0 ~ 20MΩ	0.01MΩ	1mA @ 500K	± (3%+5)	
	20 ~ 200MΩ	0.1MΩ			
	200 ~ 500MΩ	1MΩ			
1000V (0 ~ 20%)	0 ~ 200MΩ	0.1MΩ	1mA @ 1000K	± (3%+5)	
	200 ~ 1000MΩ	1MΩ			
	1.00 ~ 5.00GΩ	0.01GΩ			± (5%+0.1GΩ)
	5.00 ~ 10.00GΩ	0.01GΩ			± (10%+0.2GΩ)

Insulation test voltages : 50, 100, 250, 500, 1000V  
Insulation source voltage : +20%, -0%  
Insulation short circuit test current : 1.8mA nominal  
Insulation auto discharge : discharge time < 2 second for C = 1μF or less  
Insulation live circuit detection : inhibit test if terminal voltage > 20V prior to initialization of test  
Insulation maximum capacitive load : up to 1μF load  
Storage temperature : -40 ~ 60°C  
Operating temperature : 0 ~ 40°C  
Relative humidity : 40 ~ 75% (40 ~ 60% when insulation test > 1GΩ)  
Size : 180 x 140 x 65mm  
Weight : ±900g

### DC Voltage

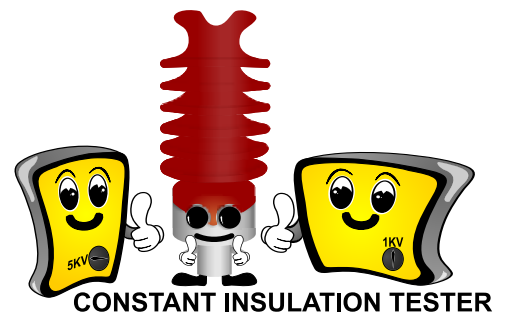
RANGE	RESOLUTION	ACCURACY
200V	0.1V	± (0.5%+5)
1000V	1V	± (0.5%+5)

### AC Voltage

RANGE	RESOLUTION	ACCURACY
200V	0.1V	± (1.5%+5)
750V	1V	± (1.5%+5)

### Resistance

RANGE	RESOLUTION	ACCURACY
20Ω	0.01Ω	± (1%+5)
200Ω	0.1Ω	± (1%+5)



CONSTANT INSULATION TESTER

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