

Measuring Tweezers

SMART TWEEZER



Smart Tweezers features a unique patented mechanical and electronic design that integrates a highly accurate digital multimeter with a built-in high precision SMD probes and a display. This light weight device can be easily held by one hand. It is designed for component evaluation on a PCB or a production line, component impedance testing and sorting of SMD components. Smart Tweezers dramatically reduces time necessary to troubleshoot or debug a complex PCB significantly simplifying process of locating a faulty component.

- automatic LCR and voltage measurements
 - automatic selection of the best range
 - display of active and passive components
 - ideal for SMT components as small as 0.3 mm
- Power supply: battery 1,5V LR44

Function	SMART TWEEZER
DC Voltage	-8 V to + 8 V
Resistance	0 Ω - 9,9 MΩ
Capacitance	0 pF - 4999 uF
Inductance	0,5 mH - 999 mH
Measurement update rate	up to 4 measurements per second
Dimensions	140x25x30 mm

Part No.	Ord.No.
S SMART TWEEZERS	68970

VA 503



The V&A VA503 gives users an easy way to sort and evaluate loose components and to perform on-board measurements and debugging. Precise tips made of non-magnetic steel are able to pick and reliably contact even smallest SMD components, or take measurements from the devices already mounted on a board. The probe can also be used to test conventional components with wire leads too short to insert into the test terminals.



Function	VA 503		VA 505 B	
	Range	Accuracy	Range	Accuracy
Resistance	400 Ω - 40 MΩ	±(2% + 5)	300 Ω - 60 MΩ	±(1% + 5)
Capacitance	4nF - 200 uF	±(5% + 5)	3nF - 60 mF	±(3% + 5)
Auto Scan	no		yes	
Diode test	yes		yes	
Dimensions	181x35x20 mm		181x35x20 mm	

Part No.	Ord.No.
S VA 503	59378
S VA 505 B	72150

MS-8211



PEN TYPE meter with non-contact AC voltage detector

- Conform to the IEC1010-1 Standard CAT III 600V
- The overmolding rubber case protects the meter to be stronger
- Display: 1999 counts
- Auto/Manual range
- Detecting AC voltage of special frequency, the sensitivity of AC voltage adjustable
- Sound and flash alarm

Function	SMART TWEEZER
Indicating range	LCD 3 1/2 digits
Accuracy	0,8%
Voltage DC	200mV-600V
Voltage AC	200mV-600V
Resistance	200-20MΩ
Continuity Test	yes, buzzer
Other functions	Data Hold, Max Hold, diode test
Dimensions	208 x 38 x 29 mm

Part No.	Ord.No.
S MS-8211	57106

Clamp Multimeters

BENNING CM1-1



BENNING

Digital Current Clamp Multimeter, Excellent Cost-Performance Ratio - safe current measuring up to 400A AC

- measuring inputs for voltage, resistance, continuity and diode test
- integrated Volt sensor signalises phase voltages by means of an acoustic signal and a red LED signal (CM 1-3)
- it localizes cable breaks and defective lamps in exposed cables (cable reel, light chains) via the feeding side of the phase (CM 1-3)



Function	BENNING CM1-1
Indicating Range	2000
Accuracy	2%
Voltage AC	-
Voltage DC	-
Current AC	10 mA - 400 A
Current DC	-
Resistance	-
Continuity Test	-
Frequency	-
Memory	HOLD, MAX
Max. Clamp Opening	30 mm
Measurement Category	CAT III 600 V

Part No.	Ord.No.
o BENNING CM1-1	60871

BENNING CM1-2



BENNING CM1-3



Function	BENNING CM1-2	BENNING CM1-3
Indicating Range	2000	2000
Accuracy	1%	1%
Voltage AC	0,1 V - 600 V	0,1 V - 750 V
Voltage DC	0,1 V - 600 V	0,1 V - 1000 V
Current AC	0,1 A - 400 A	0,1 A - 200 A
Current DC	-	-
Resistance	0,1 Ω - 20 MΩ	0,1 Ω - 20 MΩ
HOLD	yes	yes
Measuring method	RMS	RMS
Max. Clamp Opening	30 mm	16 mm
Measurement Category	CAT III 600 V	CAT IV 600 V

Part No.	Ord.No.
o BENNING CM1-2	62859
o BENNING CM1-3	62860