Drop shock proof meter

DROP PROOF

SP21

Continuity check buzzer

- Drop shock proof taut-band meter
- ±DCV zero center meter
- Fuse and diode protection
- Battery check
- Tilt stand

Bandwidth : 40～100kHz (AC12V)
Safety : IEC61010-1 (EN61010-1) 2001-02 CAT.III 600V

Optional accessories

HV probe : HV-20
Carrying case : C-SPH or C-SP
Clip adapter : CL-11, TL-8IC, CL-15
Test lead : TL-21M, TLF-120

Function	Measuring range	Accuracy
DCV	0.3 (5kΩ)/3/12/30/120/600V (20kΩ/V)	±3% of full scale
(NULL)	±6/30V (20kΩ/V)	±5% of full scale
ACV	12/30/120/300/600V	±3% of full scale
DCA	60μ/30m/0.3A	±3% of full scale
Resistance	2k/20k/2MΩ	±3% of arc
Capacitance	500μF	*1
Continuity	Buzzer sounds at less than approx. 10Ω. Open voltage: 3V	
Bandwidth	40～100kHz (AC12V)	
Battery	R6P×2	
Fuse	φ6.3×30mm (250V/0.5A)	
Size / Weight	H144×W99×D41mm/approx. 270g	
Standard accessories included	Test lead (TL-21), Instruction manual	

The value in ( ) at DCV and ACV is input resistance.
*1 Pointer indication of the maximum move by charged current in the capacitor.

DROP PROOF

SP20

DC high volotage & temperature measurable

- 20ch measurement ranges
- Capacitance measurement 500μF
- Tilt stand
- DC high voltage and temperature measurement (with optional accessories)

Bandwidth : 40～100kHz (AC10V)

Optional accessories

HV probe : HV-10
Temperature probe : T-THP
Carrying case : C-SPH or C-SP
Clip adapter : CL-11, TL-8IC
Test lead : TLF-120

Optional

Function	Measuring range	Accuracy
DCV	0.25/2.5/5/10/50/100V (20kΩ/V)/500V (9kΩ/V)	±3% of full scale
ACV	10/50/250/500V (9kΩ/V)	±3% of full scale
DCA	50μ/2.5m/25m/0.25A	±3% of full scale
Resistance	2k/20k/200k/2MΩ	±3% of arc
Capacitance	500μF	*1
DC high voltage	DC25kV (Optional probe "HV-10" is necessary)	—
Temperature	-20 ～ +200℃ (Optional probe "T-THP" is necessary)	±3% (T-THP)
Bandwidth	40～100kHz (AC10V)	
Battery	R6P×2	
Fuse	φ6.3×30mm (250V/0.5A)	
Size / Weight	H144×W99×D41mm/approx. 270g	
Standard accessories included	Test lead (TL-61), Instruction manual	

The value in ( ) at DCV and ACV is input resistance.
*1 Pointer indication of the maximum move by charged current in the capacitor.

DROP PROOF

SP-18D

Protective body cover

- Low power ohm (3V) measurement upto 200MΩ
- Capacitance measurement 0.01μF～1000μF
- LED check by 3V terminal voltage at resistance range
- Battery check
- Protective body cover

Bandwidth : 30～80kHz (AC12V), 30～20kHz (AC30V)

Optional accessories

Clip adapter : CL-11, TL-8IC

Function	Measuring range	Accuracy
DCV	0.3/3/12/30/120/600V (20kΩ/V)	±3% of full scale
ACV	12/30/120/300/600V (9kΩ/V)	±3% of full scale
DCA	60μ/30m/0.3A	±3% of full scale
Resistance	2k/20k/2M/200MΩ	±3% of arc
Battery check	1.5V/1.5V Coin battery	—
Capacitance	1000μF	*1
Bandwidth	30～80kHz (AC 12V) 30～20kHz (AC 30V)	
Battery	R6P×2	
Fuse	φ5.2×20mm (250V/0.5A)	
Size / Weight	H159.5×W129×D41.5mm / approx. 320g	
Standard accessories included	Instruction manual	

The value in ( ) at DCV and ACV is input resistance.
*1 Pointer indication of the maximum move by charged current in the capacitor.

DROP PROOF

TA55

30A range for automotive

- High level panel visibility
- Continuity check buzzer
- Tilt-stand
- Measureable upto DC30A / DC300A with optinal clamp probe

Bandwidth : 40～5kHz

Optional accessories

Clamp probe : CL33DC
Carrying case : C-SPH or C-SP
Clip adapter : CL-11, TL-8IC
Test lead : TL-91M, TLF-120

Function	Measuring range	Accuracy
DCV	0.3/3/16/30/60V (20kΩ/V)	±3% of full scale
ACV	30/120/300V (9kΩ/V)	±4% of full scale
DCA	0.5/3/30A	±5% of full scale
Resistance	2k/20k/200k/2MΩ	±3% of arc
Continuity	Buzzer sounds at less than approx. 10Ω. Open voltage : 3V	
Bandwidth	40～5kHz	
Battery	R6P×2	
Fuse	φ6.3×30mm (250V/3A)	
Size / Weight	H142×W97×D38mm/approx. 300g	
Standard accessories included	Test lead (TL-91), Instruction manual	

The value in ( ) at DCV and ACV is input resistance.