Drop shock proof meter





CE













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

SP20

DC high volotage & temperature measurable

- 20ch measurement ranges
- Capacitance measurement 500 µF
- 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

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

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 ac

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 (NULL)	0.3 (5kΩ)/3/12/30/120/600V (20kΩ/V) ±6/30V (20kΩ/V)	$\pm3\%$ of full scale $\pm5\%$ of full scale	
ACV	12/30/120/300/600V	\pm 3% of full scale	
DCA	60µ/30m/0.3A	$\pm3\%$ of full scale	
Resistance	2k/20k/2MΩ	$\pm 3\%$ of arc	
Capacitance	500µF	*1	
	Buzzer sounds at less than approx. $10\Omega.$ Open voltage: $3V$		
Continuity	Buzzer sounds at less than approx. 10Ω. Op	en voltage: 3V	
Continuity Bandwidth	Buzzer sounds at less than approx. 10Ω . Op $40 \sim 100$ kHz (AC12V)	en voltage: 3V	
		en voltage: 3V	
Bandwidth	40~100kHz (AC12V)	en voltage: 3V	
Bandwidth Battery	40~100kHz (AC12V) R6P×2	en voltage: 3V	

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



Function	Measuring range	Accuracy
DCV	0.25/2.5/5/10/50/100V (20kQ/V)/500V (9kQ/V)	$\pm 3\%$ of full scale
ACV	10/50/250/500V (9kQ/V)	\pm 3% of full scale
DCA	50µ/2.5m/25m/0.25A	$\pm 3\%$ of full scale
Resistance	2k/20k/200k/2MΩ	$\pm 3\%$ of arc
Capacitance	500µF	*1
DC high voltage	DC25kV (Optional probe "HV-10" is necessary)	-
-		
Temperature	-20 \sim +200°C (Optional probe "T-THP" is necessary)	±3% (T-THP)
Bandwidth	-20 ~ +200C (Optional probe "I-THP" is necessary) 40 ~ 100kHz (AC10V)	±3% (T-THP)
		±3% (T-THP)
Bandwidth	40~100kHz (AC10V)	±3% (T-THP)
Bandwidth Battery	40~100kHz (AC10V) R6P×2	±3% (T-THP)

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

DSP ATT

Function	Measuring range	Accuracy
DCV	0.3/3/12/30/120/600V (20kQ/V)	$\pm3\%$ of full scale
ACV	12/30/120/300/600V (9kQ/V)	$\pm 3\%$ of full scale
DCA	60µ/30m/0.3A	$\pm3\%$ of full scale
Resistance	2k/20k/2M/200MΩ	$\pm 3\%$ 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	.,
Battery Fuse		- /
,	R6P×2	,

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



Function	Measuring range	Accuracy
DCV	0.3/3/16/30/60V (20kQ/V)	$\pm 3\%$ of full scale
ACV	30/120/300V (9kQ/V)	$\pm4\%$ of full scale
DCA	0.5/3/30A	$\pm 5\%$ 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	
Bandwidth Battery	40~5kHz R6P×2	
Battery	R6P×2	

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

Analog Multitester



DROP PROOF	