

For low voltage

For medium & low voltage

For medium voltage

For medium & high voltage

For extra high voltage

For AC

For DC

For AC & DC

For communication

For railways

Index etc.

Voltage detector

Auxiliary device for voltage detection

Voltage detector checker

Phase tester

Grounding hook

Discharge hook stick

Discharge stick

Measuring instrument

Illuminator

Railway products

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HTE-610W

Low voltage detector
volcheck

AC 50~1000V

Audio signaling and light emitting

Contact tip
Conductive rubber

Sensitivity adjustment

Voltage detection through covering (sheath)

CE

RoHS

■Features

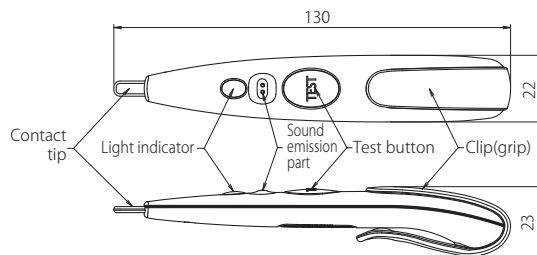
1.Highly convenient

- Voltage detection through covering (sheath)
- Sensitivity adjustment

2.Designed with user safety and security in mind

- Conductive rubber provides a high level of safety
- CAT III 1000V

■Dimensions: HTE-610W



Low Voltage Detector, New model coming !



■Specifications

Model	HTE-610W
Working voltage range	AC50V~1000V 50/60Hz
Insulation resistance	Between contact tip and clip(grip): 100MΩ minimum with a 500V megger
Dielectric strength	Ditto:2000V-1 minute
Leakage current	Ditto:100 μA maximum
Impulse withstand	Ditto:8000V-10 cycles of positive / negative (IEC61010-1 CAT III 1000V equivalent)
Lighting (HTE-610WL only)	The light is switched "ON" or "OFF" by pushing the test button. The light is turned off automatically about 30 seconds after the light is turned on. (Automatic power off) ※The voltage detector operator regardless of the light turned ON or OFF.
Operation starting voltage (Voltage to ground)	Maximum sensitivity: AC40V maximum Minimum sensitivity: Not operation at AC100V Operation at AC200V Ex-Factory: AC40V±10V (when the contact tip is in contact with an internal standard insulated cable (600V-IV2mm ²))
Operation status display	Light: Intermittent red light visible in 8000lx ambient Sound: Intermittent sound of 50dB minimum in 30cm distance
Operating temperature range	0°C ~ +40°C
Wight	22g (including batteries)
Battery	2 alkaline button cells LR44(1.5V)
Battery life	New battery : In continuous operation 10 hours : In storage 1.5 years

HTE-610WL

Low voltage detector
volcheck

AC 50~1000V

Audio signaling and light emitting

Contact tip
Conductive rubber

Sensitivity adjustment

Voltage detection through covering (sheath)

LED lighting

CE

RoHS

■Features

1.Highly convenient

- Voltage detection through covering (sheath)
- Sensitivity adjustment

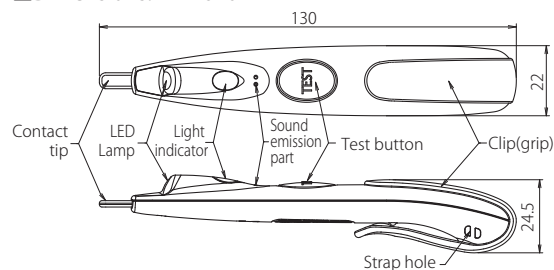
2.Designed with user safety and security in mind

- Conductive rubber provides a high level of safety
- CAT III 1000V

3.Led light type with more functions

- Built in LED light with auto power-off function
- The LED light also serves as a battery lever checker

■Dimensions: HTE-610WL



Low Voltage Detector, New model coming !



■Specifications

Model	HTE-610WL
Working voltage range	AC50V~1000V 50/60Hz
Insulation resistance	Between contact tip and clip(grip): 100MΩ minimum with a 500V megger
Dielectric strength	Ditto:2000V-1 minute
Leakage current	Ditto:100 μA maximum
Impulse withstand	Ditto:8000V-10 cycles of positive / negative (IEC61010-1 CAT III 1000V equivalent)
Lighting (HTE-610WL only)	The light is switched "ON" or "OFF" by pushing the test button. The light is turned off automatically about 30 seconds after the light is turned on. (Automatic power off) ※The voltage detector operator regardless of the light turned ON or OFF.
Operation starting voltage (Voltage to ground)	Maximum sensitivity: AC40V maximum Minimum sensitivity: Not operation at AC100V Operation at AC200V Ex-Factory: AC40V±10V (when the contact tip is in contact with an internal standard insulated cable (600V-IV2mm ²))
Operation status display	Light: Intermittent red light visible in 8000lx ambient Sound: Intermittent sound of 50dB minimum in 30cm distance
Operating temperature range	0°C ~ +40°C
Wight	22g (including batteries)
Battery	2 alkaline button cells LR44(1.5V)
Battery life	New battery: In continuous operation 10 hours (with LED Lamp OFF) 5 hours (with LED Lamp ON) : In storage 1.5 years

How to use the LV voltage detector for AC

■ Perform voltage detection while holding the grip firmly.

The contact area with the hand affects the sensitivity of the low voltage detector. So, appropriate sensitivity cannot be obtained unless it is held firmly.

● Good



● Bad



● Bad

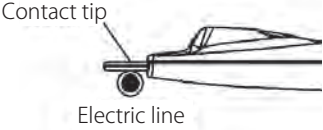


Holding only with finger tips

Holding end of the grip

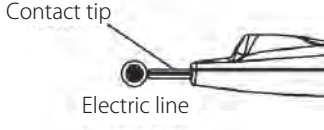
■ How to make contact with the detector

● Correct



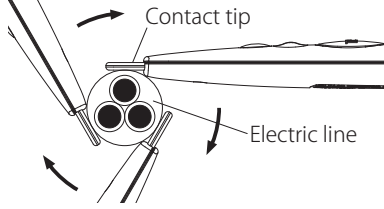
Make contact with wide side of the tip to ensure large contact area.

● Wrong



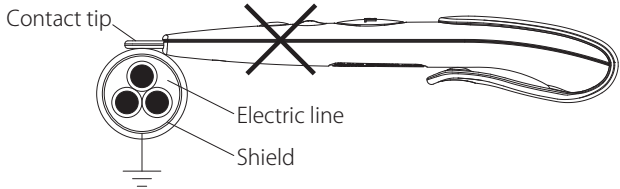
Making contact just by the end of the contact tip. (Capacitance decrease, and operating sensitivity becomes low.)

● In the case of detection on a multicore cable (two or more conductors)



Perform voltage detection throughout the circumference.

■ Voltage detection for shielded cables is not possible.



The voltage detector does not work because of the electrical shielding layer which is grounded.

■ Sensitivity adjustment (for HTE-610W, HTE-610WL, HT-670) * Adjustment is made by the volume knob after detaching the clip.

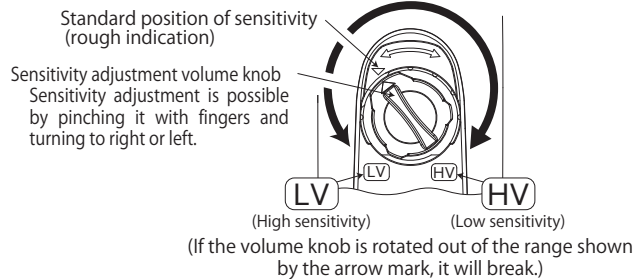
The products are adjusted to the standard sensitivity at shipment (as default). However, sensitivity adjustment can be made when it is required for some reasons such as: When the detection is not possible over the outer surface of the insulated cable; When it is required to reduce the influence of induced voltage of the area etc.

When the volume knob is turned to the LV side (left turn), sensitivity increases (detect lower voltage), and when turned to the HV side (right turn), sensitivity decreases (detect higher voltage).

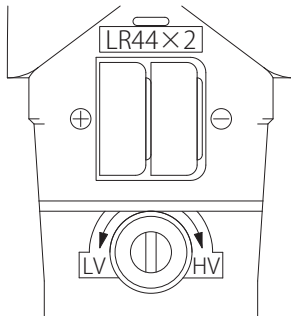
* The volume knob can be turned only about half a rotation. Overturning may cause damage.

* Pay attention to excessively high or low sensitivity. If it is excessively high, there is a risk that an correct judgment would not be possible, because the product responds to too small voltage and static electricity etc.

■ HTE-610W/610WL



■ HT-670



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Voltage Detectors as per working voltages

■ For Low Voltage to Medium Voltage

Model	Feature	Voltage						Listed page
		0V 50V/100V	600V	1000V	7000V	11,400V	20000V	
HTE-610W			AC50~1000V					15
HTE-610WL	With LED lighting		AC50~1000V					15
HTE-700D/DL			AC50~600V					17
			DC12~750V					17
HT-670	Voltage discrimination function of 100 V-200 V (* When option is used)		AC50~600V					17
			DC50~600V					17
HSF-11			AC80~11,400V					19
HSE-7G			AC60~7,000V					19
HSS-25B1	Telescopic type		AC 80 ~ 25,000V					20
HSG-6	Telescopic type		AC80~7,000V					20
HSN-6A1	Telescopic type		AC100~7,000V			~AC10.5kV**	* Applied only at withstand voltage test	21
			DC50~7,000V			~DC21kV**		21
HST-1.5N			AC600~7,000V					21
			DC600~7,000V					21

■ For Medium Voltage to Extra High Voltage

Model	Feature	Voltage							Listed page
		3kV	6kV	22kV	66kV	154kV	275kV	500kV	
HST-30W	Telescopic type		AC3kV~42kV						23
HWB-35	Non-contact type		AC6kV~35kV						23
HWB-138	Non-contact type				AC66kV~138kV				23
HWB-550	Non-contact type						AC210kV~550kV		23
HST-30L	Telescopic type		AC3kV~34.5kV						23
HST-70L	Telescopic type			AC20kV~80.5kV					23
HST-W80L	Telescopic type				AC60kV~195.5kV				23
HS-500							AC250kV~550kV		24
WM-22	Pinwheel type /Telescopic type		AC6.6kV~22kV						24
WM-33	Pinwheel type /Telescopic type		AC6.6kV~33kV						24
WM-77A/B/C	Pinwheel type /Telescopic type			AC11kV~77kV					24
WM-154A/B	Pinwheel type /Telescopic type			AC11kV~154kV					24
WM-275	Pinwheel type /Telescopic type				AC33kV~275kV				24
HST-20N			AC3kV~25kV						25
			DC3kV~25kV						25
HS-90N				AC6kV~90kV					25
				DC6kV~90kV					25
HWA-33X				AC11kV~33kV					26

■ For Railway (for trolley wire)

Model	Feature	Voltage				Listed page			
		0V	600V	7000V	20000V				
HVC-1.5N3	Digital display Function for checking earth wire disconnection			DC1500V	* Measurement range is 0 to 1999 V	53			
HVC-750N3	Digital display Function for checking earth wire disconnection			DC600/750V	* Measurement range is 0 to 999 V	54			
HVC-1.5N3S	Digital display Function for checking earth wire disconnection			DC1500V	* Measurement range is 0 to 1999 V	55			
HVC-1.5N3M				DC600/750/1500V	* Measurement range is 0 to 1999 V	55			
HS-1.5NJ				AC6600V		56			
				DC600~7000V		56			
HS-1.5NR	Residual electric charge checking function Standby display function			AC6600V		56			
				DC1000~7000V		56			
Model	Feature	Voltage							Listed page
		3kV	6kV	22kV	66kV	154kV	275kV	500kV	
HST-W80JS	Telescopic type / Standby display function			AC20kV~80.5kV					57