

Voltage tester



AX-T901

Instruction Manual

1. Safety



- ⤴ Prior to measurement ensure that the test leads and the test instrument are in perfect condition.
- ⤴ The voltage testers may no longer be used if one or several functions fail or if no functionality is indicated.
- ⤴ Do not use this instrument under damp conditions.
- ⤴ Perfect display is only guaranteed within a temperature range of -10°C up to $+55^{\circ}\text{C}$, at relative humidity question $<85\%$.
- ⤴ If the operator's safety cannot be guaranteed, the instrument must be removed from service and protected against use.



- ⤴ When using this instrument only the handles of the probes may be touched – do not touch the probe tips.
- ⤴ This instrument may only be used within the ranges specified and within low voltage systems up to 400V.
- ⤴ Prior to usage ensure perfect instrument function (e.g. on known voltage source).

2. Specifications

LED voltage range	6,12,24,50,120,230,400V AC/DC
LED resolution	$\pm 12,24,50,120,230,400\text{V AC/DC}$,
Tolerances	-30% to 0% of reading
Voltage detection:	automatic
Polarity detection:	full range
Range detection:	automatic
Response time:	$< 0.1\text{s LED}$
ACV Frequency range:	50/60Hz



Internal basic load:	approx. 10 W at 400V
Peak current	1s <0.2A / 1s (5s) < 3.5mA
Operation time	ED =30s
Recovery time:	10 min
LED on:	About 3V AC/DC
Low impedance test	
Voltage range	12....400 AC/DC
Low impedance	≤25kΩ
Operation time	5s<230V AC/DC, 3s< 400 V AC/DC,
Overvoltage protection:	400 V AC/DC <5s
Temperature range:	-10° up to +55°
Humidity:	max.85% relative humidity
Overvoltage class:	CATIII - 400V

2.1. Low impedance test

The following voltage steps (AC or DC) can be indicated: ±12,24,50,120,230, 400V AC/DC. The duration of the test with a lower internal resistance of the device (load test) depends on the value of the voltage to be measured. To prevent excessive warming of the voltage tester, it is equipped with a thermal protection.

2.2 RCD Test

Rated current : 30mA.

Operating Voltage:220V AC.

