

## General information about ADHV-6100 Transformer Turn To Ratio Tester

ADHV-6100 is a tester that measures the turns ratio of windings in single-phase and three-phase distribution with the application of 7 wide touchscreen aimed to maximize user convenience. In particular, it can be used anywhere as it is powered by chargeable battery. Selectable test voltages include 4Vac, 10Vac, 40Vac and 100Vac (optional), enabling you to measure a variety of transformers.

It uses the IEEE C57.12.90 measurement method and accurately measures the voltage at the transformer's winding at no load. The ADHV-6100 can be used to test power regulator, power transformer, CT (current transformer) and PT (potential transformers).

This model is divided into two: ADHV-6100-1P (single-phase) and ADHV-6100-3P (three-phase). You are able to print out measurement data via printer, save them to the meter's internal memory, or download to your PC.

### Features:

- 1-portable with robust and lightweight enclosure.
- 2-simultaneously measures turns ratio, excitation current, polarity and phase angle.
- 3-verifies limiter settings: function to judge whether acceptable or non-acceptable
- 4-application of dockable wireless printer (bluetooth)
- 5-micro SD 8GB applied as basic memory.
- 6-measurements automatically saved to designated storage space in real time.
- 7-Automatic measurement and display of measurement result
- 8-communication: USB, bluetooth
- 9-output of measurement data in reports
- 10-chargeable battery (Li-ion) operated.



## Technical specification of the device:

### General specification:

LCD display: 1024×600 pixels/ 7.0 in color TFT screen(touch panel)

power (battery): 7.2V/5.2 Li-ion , 12V/2.5A adaptor

Communication :USB , Bluetooth

Print: external printer

Data storage: micro SD (8GB)

operating temp/humidity: 0°C ±45°C, RH 85% max

storage temp/humidity: -20°C±60°C, RH 85% max

Dimension: 270(L)×246(W)×124(H) mm

Weight :3.0 kg

### Electrical specifications:

#### measurement of turns ratio:

Type	Single-phase	Three-phase
Range for turns ratio	4Vac 1~1.999(0.1%) 2000~3.999(0.25%) 4000~15000 (2%)	4Vac 1~1.999(0.1%) 2000~3.999(0.25%) 4000~15000 (2%)
	40Vac 1~1.999(0.1%) 2000~3.999(0.25%) 4000~15000 (2%)	40Vac 1~1.999(0.1%) 2000~3.999(0.25%) 4000~15000 (2%)
Excitation voltage	1V.4V.10V.40V	1V.4V.10V.40V
Excitation current	0~2A	0~2A
Phase angle	Range 0~360 degree Accuracy: ±0.2 degree+2dgts	Range 0~360 degree Accuracy: ±0.2 degree+2dgts
Polarity	Displayed on screen	Displayed on screen

#### measurement of temperature and humidity (operating environment):

Measurement	Measurable range	accuracy
Temp	-40°C-125°C	±0.3°C(10-60°C)
Humidity	0-100%RH	±2%(20-80%RH)

