ATH9006
COMPREHENSIVE SAFETY TESTER

CHINESE/ENGLISH OPERATION
470 (W) * 133 (H) * 491 (D)
UNIT: mm
Weight: 30kg

7 TESTING FUNCTIONS:
AC withstand voltage, DC withstand voltage, insulation, grounding, leakage, AC power, startup

- **10 inch LCD display**
- **Joint testing of six functions (5 out of 6)**
- **0.5 second response and testing speed**
- **Standard RS232/Handler**



Power Supply 220VAC~240VAC 47.5Hz~52.5Hz Power: maximum 300VA

The ATH9006 comprehensive safety gauge tester is a multifunctional, high-performance, and highly reliable electrical safety gauge tester that can achieve eight testing functions, including AC withstand voltage, DC withstand voltage, insulation, grounding, leakage, AC power, DC power, and startup. With a measurement accuracy of 1.5%, multiple measurement parameters can be displayed simultaneously; The system adopts an ARM processor and a 10 inch high-definition TFT LCD display with touch function, which can quickly and accurately complete parameter measurement. At the same time, the instrument has interfaces such as Handler and RS232 to meet different testing and communication needs of users The ATH9006 comprehensive safety testing instrument is mainly used to provide safety testing solutions for electric vehicles, power grids, photovoltaics, home appliances, information equipment, and medical equipment industries, as well as innovative solutions for various electrical measurements.

ATH9006 Functional characteristics of comprehensive safety regulation tester:

1. Joint testing of eight functions including AC withstand voltage, DC withstand voltage, insulation, grounding, leakage, AC power, DC power, and startup;
2. Equipped with PLC control, variable frequency power supply control, communication and other interfaces, it can be connected to external supporting facilities to achieve automated testing;
3. Faster response and testing speed, with a minimum setting of 0.5 seconds;
4. 1.5 level safety regulation testing accuracy, 0.5 level electrical parameter testing accuracy;
5. Equipped with unique self inspection function, it simplifies production operations and does not require re self inspection after group change;
6. Adopting Chinese menu prompts for operation steps, easy to understand, all numeric keyboard operation for more convenient settings;
7. Can set lower limit judgment to eliminate product missed inspections; Conduct intelligent analysis and sound and light alarm for failed product testing.
8. Equipped with more standard line compensation function, with more accurate calculations;
9. Equipped with a USB interface, it can achieve massive storage of test results;
10. Suitable for testing requirements in different industries such as household appliances, lighting fixtures, and power tools;

WORKING CONDITIONS	
Power Supply	AC220V±10%，50/60Hz±5%
Ambient Temperature	0~40℃
Environmental RH	20~80%RH
Test Time	Range：1 ~ 999s resolution：1s
STANDARD CONFIGURATION FEATURES	
Warning Light	Three color alarm light
Remote Control Switch	Remote control switch with external start and stop signals
Single group/single step testing	Single group testing and single step testing can be achieved through editing
Communication	RS232 9-pin interface (communication address can be set to match different address combinations)
Switching Output	START, STOP, PASS, FAIL, UNDER TEST
OPTIONAL FUNCTION	
Communication	RS485
Support host Computer Software	Test data can be remotely transmitted and processed to achieve automated control
Others	Customizable
AC WITHSTAND VOLTAGE	
AC output voltage	Range：100-5000V，50Hz/60Hz Dual frequency selectable，resolution：1V，accuracy±(1.5% set value +3V)
Current Measurement	0.002-9.999-100.00mA，resolution：0.001mA/0.01mA，accuracy：±(1.5% Read value +0.01mA)
Current Alarm	Upper：0.001-100.00mA，lower：0.000-100.00mA
Test Time	Range：1 ~ 999s resolution：1s
DC WITHSTAND VOLTAGE	
DC output voltage	Range：100-6000V，resolution：1V，accuracy±(1.5% set value +3V)
Current Measurement	0.005-9.999-10.00mA，resolution：0.001mA/0.01mA，accuracy：±(2% Read value +0.01mA)
Current Alarm	Upper：0.001-10.00mA，lower：0.000-10.00mA
Test Time	Range：1 ~ 999s resolution：1s
INSULATION RESISTANCE	
DC output voltage	Range：100-1000V Continuing Adjust，resolution：1V，accuracy：±(1.5% set value +3V)
Insulation resistance measurement	100-499V：1-16G：±(5% Read value +0.5MΩ)；1GΩ - 10GΩ：(gust for reference) 500-1000V：<100MΩ-1GΩ：±(3% Read value +2MΩ)；1GΩ - 10GΩ：±(10% Read value +5MΩ)
Insulation resistance alarm	Upper：1 ~ 2000MΩ；lower ：0 ~ 2000MΩ
Test Time	Range：1 ~ 999s resolution：1s
GROUNDING RESISTANCE	
Output AC current	Range：2.0-40A Continuous adjustable output，50/60Hz Dual frequency selectable，resolution：0.01A accuracy：±(2% set value +0.20A)
Grounding Resistance Measurement	Range：10.0 ~ 600mΩ accuracy：2% Read value +3mΩ，resolution：0.1mΩ
Grounding resistance Alarm Setting	Upper：5 ~ 10A:10.0 ~ 600mΩ；10 ~ 20A:10.0 ~ 300mΩ；20 ~ 30A:10.0~200mΩ；lower ：0.0 ~ 100mΩ
Test Time	Range：1 ~ 999s resolution：1s
LEAKAGE CURRENT	
Measurement Settings	Leakage current to ground: G-L, G-N, AUTO (G-L, G-N)
Leakage Type Setting	Dynamic leakage and static leakage, optional with three built-in human body networks, free switching, and customizable to any human body network
AC voltage measurement	Range：60.0V-300.0V，resolution：0.1V，accuracy：±(1.5% Read value +3V)
Leakage current measurement	Range：0.000mA-20.00mA，resolution：0.001/0.01mA，accuracy±(1.5% Read value +5dgt)
Leakage current setting alarm	Upper：0.001 ~ 20.00mA；lower ：0.000 ~ 20.00mA
Test Time	Range：1 ~ 999s resolution：1s
AC/DC POWER	
AC voltage measurement	Range：60.0V-300.0V，resolution：0.1V，accuracy：±(0.25% Read value +0.25%Range Value)
AC current measurement	Range：0-30A，resolution：0.001A/0.01A，accuracy：±(0.25% Read value +0.25%Range Value)
Active Power Measurement	Range：0-6000W，resolution：0.1W/1W，accuracy：±(0.25% Read value +0.25%Range Value)
Power Setting Alarm	Upper：0.1 ~ 6000W lower ：0 ~ 6000W 0=Off
Test Time	Range：1 ~ 999s resolution：1s
START (OPTIONAL)	
AC voltage measurement	Range：60.0V-300.0V，resolution：0.1V，accuracy：±(0.25% Read value +0.25%Range Value)
AC current measurement	Range：0-30A，resolution：0.001A/0.01A，accuracy：±(0.25% Read value +0.25%Range Value)
Current Setting Range	Upper：0.001 ~ 30.00A，lower：0.000 ~ 30.00A