

NACT-100A多功能电能表现场校验仪

产品名称	NACT-100A多功能电能表现场校验仪
公司名称	南澳电气（武汉）有限公司
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产品详情

NACT-100A Multi-functional Energy Meter Calibrator

NACT-100A多功能电能表现场校验仪（台式和手持式任选）

产品简介

NACT-100A多功能电能表现场校验仪多功能电能表现场校验仪是南澳电气开发、研制的集电参量测量、电能表校验、接线判断为一体的高精度测试仪器。该仪器配以高精度、高线性度的电压互感器和电流互感器，使仪器对各种参量的测量精度很高，同时配有钳形电流互感器，使得现场接线简便，无需断开电流回路即可直接接入。

NACT-100A多功能电能表现场校验仪采用大屏幕彩色液晶作为显示器，中英文图形化操作界面并配有汉字提示信息、多参量显示的液晶显示界面，人机对话界面友好，向量图显示及接线判断为检查电路的正确性提供了可靠的依据。全触摸式导电硅胶键盘操作方式，操作手感好，简便易学。仪器内置大容量掉电不丢失数据存储器，可将现场校验数据保存下来，可存储1000组现场校验结果，可提供后台微机管理软件，将结果上传至计算机，实现微机化管理。

NACT-100A多功能电能表现场校验仪采用本公司独立设计开模制造的工程塑料外壳，仪表外形美观、实用。现场测试操作方便。

本机操作时中可以打开后部的支架放在桌面使用，亦可手持操作使用。为方便手持操作，本机可增加固定手持操作的紧固带。手持操作时可以将手固定在仪器的左侧，保证了手持操作的方便灵活。

产品别名

电能表校验仪，电能表现场校验仪，三相电能表现场校验仪，电能表现校仪

产品特性

- 1、仪器是集电能表校验、电参量测试和检测电网中发生波形畸变、电压波动和三相不平衡等电能质量问题为一体的高精度测试仪器。
- 2、不停电、不改变计量回路、不打开计量设备情况下，在线实负荷检测计量设备的综合误差。
- 3、精确测量电压，电流，有功功率，无功功率，相角，功率因数，频率等多种电参量，从而计算出测试设备回路的测量误差。
- 4、可显示被测电压和电流的矢量图，用户可以通过分析矢量图得出计量设备接线的正确与否。同时，在三相三线接线方式时，可自动判断48种接线方式；追补电量自动计算功能，方便使用人员对接线有问题的用户计算追补电量。
- 5、电流回路可使用钳形互感器进行测量，操作人员无须断开电流回路，就可以方便、安全的进行测量。
- 6、可校验电压表、电流表、功率表、相位表等指示仪表以及三相三线、三相四线、单相的1A、5A的各种有功和无功电能表。
- 7、可采用光电、手动、脉冲等方式进行电能表校验。
- 8、测量分析公用电网供到用户端的交流电能质量，其测量分析：频率偏差、电压偏差、电压波动、三相电压允许不平衡度和电网谐波。
- 9、可显示单相电压、电流波形并可同时显示三相电压、电流波形。
- 10、负荷波动监视：测量分析各种用电设备在不同运行状态下对公用电网电能质量造成的波动。记录和存储电压、电流、有功功率、无功功率、视在功率、频率、相位等电力参数。
- 11、电力设备调整及运行过程动态监视，帮助用户解决电力设备调整及投运过程中出现的问题。
- 12、测试分析电力系统中无功补偿及滤波装置动态参数并对其功能和技术指标作出定量评价。
- 13、可选配条码扫描器，对电表的条码进行自动录入。
- 14、电能表的485通讯接口进行检测，并能完成现场校验多功能（智能）电能表的工作需求，可根据电表中已设置的需量周期和滑差的时间对需量进行误差校验。
- 15、具备万年历、时钟功能，实时显示日期及时间。可在现场校验的同时保存测试数据和结果，并通过串口上传至计算机，通过后台管理软件（选配件）实现数据微机化管理。
- 16、采用大屏幕进口彩色液晶作为显示器，中英文图形化操作界面并配有汉字提示信息、多参量显示的液晶显示界面，人机对话界面友好。
- 17、体积小、重量轻，便于携带，既可用于现场测量使用，也可用做实验室的标准计量设备。

Product introduction

NACT-100A Multi-functional energy meter calibrator is the latest development of high precision testing instrument in our company, which has functions of electric parameter measurement, energy meter calibration and wiring

judgment. The instrument is equipped with high precision and high linearity of voltage transformer and current transformer to make high measuring precision of various parameters, at the same time, it is equipped with clip-on current transformer, that makes the field wiring simple, it can directly access without interrupting current circuit.

Also called name

Single-phase Energy Meter Calibrator; single-phase watt-hour meter tester; single-phase energy meter on-site Calibrator

The Characteristics of tester

- (1) The instrument is a high precision measuring instrument, which can be used in the calibration of electric energy meter, testing of electrical parameters, detection of waveform distortion, voltage fluctuation, unbalanced three-phase and other power quality problems occurred in the power grid.
- (2) The instrument can detect the integrated error of measuring equipment on line on the case of no power failure, without changing the measuring circuit and do not open the metering equipment.
- (3) The precise measurement of voltage, current, active power, reactive power, phase angle, power factor, frequency and other electrical parameters to calculate the measurement error of the test equipment circuit.
- (4) It can display the measured voltage and current vector diagram, the user can analyze the wiring of the measuring equipment is correct or not through the analysis of vector diagram. Meanwhile, when in the three-phase three-wire connection mode, it can automatically determine 48 kinds of wiring; Automatic calculation function of electricity compensation facilitates the operator to calculate the electricity compensation for the user whose wiring has problem.
- (5) Clip-on transformer is used to measure the current circuit, the operator does not need to disconnect the current circuit, the measurement is convenient and safe.
- (6) It can calibrate voltmeter, ammeter, power meter, phase meter and other indicating instruments, and also can measure variety of 1A or 5A three-phase three-wire, three-phase four-wire and single phase of active and reactive energy meters.
- (7) Can use photoelectric, manual, pulse and other methods to calibrate the energy meter.
- (8) Measurement and analysis of the AC power quality from the grid to the client, the measurement include: frequency deviation, voltage deviation, voltage fluctuation, three-phase voltage unbalance and harmonic.
- (9) it can display the single-phase voltage, current waveform, it also can display the three-phase voltage and current waveform at the same time.
- (10) Load fluctuation monitoring: measuring and analyzing the fluctuation of power quality caused by the power quality of the public power grid under different operating conditions. Recording and storage voltage, current, active power, reactive power, apparent power, frequency, phase and other power parameters.
- (11) Dynamic monitoring the adjustment and operation of electrical equipment, to help users solve the problems occurred during adjustment and operation.
- (12) Test and analysis the reactive power compensation and the dynamic parameters of filtering device in power system, and make quantitative evaluation on their function and technical specifications.

(13) With optional bar code scanner, can automatically enter the bar code of meter.

(14) Can test the communication interface 485 of energy meter, and also can make on-site calibration for multifunctional (intelligent) energy meter, can carry out error checking according to the demand cycle and slip time which has been set in the meter.

(15) With calendar and clock function, real-time display date and time.

(16) Can save the test results and on-site calibration at the same time, and uploaded to the computer through the serial port to realize computerized management of data by the backstage management software (optional).