

NAEN型电子式互感器校验系统装置

产品名称	NAEN型电子式互感器校验系统装置
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产品详情

NAEN型电子式互感器校验系统装置

NAEN electronic transformer calibrating system

功能介绍

按国标G/T 20847.7电子式电压互感器及G/T 20847.8电子式电流互感器的规定，电子式互感器(ECT/EVT)有模拟量输出和数字量输出两种。本校验系统按照国标G/T 20847.7/8电子式互感器标准和IEC61850通讯标准，基于虚拟仪器，可实现电子式互感器模拟和数字量输出的比差、相差的测量，记录，及电子式互感器的在线测量比对。为广大电力试验、计量、施工单位提供一种可移动的电子式互感器校验装置。

该校验系统既可以完成电子式电流互感器的校验也可以完成电子式电压互感器的校验。该系统分为电流标准通道，电压标准通道，电流被测通道，电压被测通道，校验仪数据处理平台。电流标准通道由升流器、标准电流互感器、标准转换器组成。电流被测通道由升流器、被校互感器组成。校验仪通过采集器获取标准电流传感器和被校电流传感器的电参量，并将这些电参量以标准格式上传给计算机，计算机数据处理平台将同一时刻的两个信号进行比对处理，计算出被校电流传感器的误差情况，显示并记录测量结果。电压标准通道由升压器、标准电压互感器、标准转换器组成。电压被测通道由升压器、被校互感器组成。工作原理与电流校验系统相同。

系统特点

符合G/T 20847.7 /8、IEC61850-9-1标准；

功能强大，适用于基于G/T 20847.7 /8的电子式电流、电压互感器的模拟量输出接口、数字量输出接口的校验。

基于虚拟仪器的设计，操作简单，配置灵活，系统稳定；

准确度高、可靠性强。准确度等级达到0.05级，可用于对0.2级电子式电流互感器和0.2级电子式电压互感器比对和校验。

采用高精度插值法进行同步，保证被校互感器和标准互感器采集的数据以严格的时序同步，可靠性、实用性大为提高。

系统功能

配置灵活，可根据不同的需要配置/电子式电流互感器校验/电子式电压互感器校验；

计算被校互感器与标准互感器电流/电压有效值的比差、相差；

显示当前一次导线的电流、电压、频率等相关信息，便于综合评估被校参数；

显示被校互感器输出的实时波形，以及相关设置，并自动保存校验数据，生成报表；

灵活配置试验参数，测试范围，测试次数，采样点数等相关信息。

性能指标

类别

项目指标

一次额定电压

10kV、35kV、110kV、220kV、500kV

一次额定电流

可根据用户要求定制

测量范围

电压(V):80%-150%Un(Un：一次额定电压)

电流(A):5%-120%In(In：一次额定电流)

工作电压

AC220V ± 10% 50 ± 0.5Hz

准确度等级

电流：0.05级

电压：0.05级

功耗

<20W

执行标准

IEC 60044-7/8 ; IEC61850-9-1 ; IEC61850-9-2

工作环境

使用温度: 户内部分 0 ~ 40 ; 户外部分 - 25 ~ + 50

相对湿度 : 85% (25)

海拔高度 : <2500m

大气压力 : 80kPa ~ 110kPa

使用寿命

10年

电磁兼容

满足 IEC60044 - 8 G/T20847.8

振动

GB/T11287-2000 I级

冲击和碰撞

GB/T14537.13-1993 I级

Main Features

According to the national standard G / T 20847.7 electronic voltage transformer and G / T 20847.8 electronic current transformer requirements, electronic transformer (ECT / EVT) has two kinds of analog output and digital output. The calibration system is based on the virtual instrument, which can realize the measurement of difference, difference between analog and digital output of the electronic transformer, according to GB / T20847.7 / 8 electronic transformer standard and IEC61850 communication standard. On - line Measurement Comparison of Transformer. For the majority of power testing, measurement, construction units to provide a removable electronic transformer calibration device.

The calibration system can complete the electronic current transformer calibration can also complete the electronic voltage transformer calibration. The system is divided into current standard channel, the voltage standard channel, the current measured channel, the voltage measured channel, calibrator data processing platform. The current standard channel consists of a booster, a standard current transformer, and a standard converter. Current measured by the current channel channel, the school was composed of transformers. The calibrator obtains the electric parameters of

the standard current sensor and the calibrated current sensor through the collector, and uploads these electrical parameters to the computer in the standard format. The computer data processing platform compares the two signals at the same time, The school current sensor error situation, display and record the measurement results. Voltage standard channel from the booster, the standard voltage transformer, the standard converter components. Voltage measured by the booster channel, the school was composed of transformers. The operating principle is the same as the current calibration system.

System Features

comply with G / T 20847.7 / 8, IEC61850-9-1 standard;

powerful, suitable for G / T 20847.7 / 8-based electronic current, voltage transformer analog output interface, digital output interface verification.

Based on virtual instrument design, simple operation, flexible configuration, system stability;

High accuracy and reliability. Accuracy level of 0.05, can be used for 0.2 grade electronic current transformer and 0.2 electronic voltage transformer alignment and calibration.

Using high-precision interpolation method to synchronize to ensure that the school transformer and the standard transformer data collection to strict timing synchronization, reliability, practical greatly improved.

System functions

Flexible configuration, can be configured according to different needs / electronic current transformer calibration / electronic voltage transformer calibration;

Calculate the difference between the transformer and the standard transformer current / voltage rms,

Display current, voltage, frequency and other information of the current wire to facilitate the comprehensive assessment of the school parameters;

Display the real-time waveform of the transformer output, and related settings, and automatically save the calibration data, generate reports;

Flexible configuration of test parameters, test range, test frequency, sampling points and other relevant information.

Performance Index

Category

Item Indicators

Single rated voltage

10kV、35kV、110kV、220kV、500kV

Single rated current

Manufacture as user asked

Test range

Voltage(V): 80%-150%Un(Un : Single rated voltage)

Current(A): 5%-120%In(In : Single rated current)

Work power

AC220V \pm 10% 50 \pm 0.5Hz

Accuracy level

Current : 0.05 Level

Voltage : 0.05 Level

Power consumption

<20W

Adapt standard

IEC 60044-7/8 ; IEC61850-9-1 ; IEC61850-9-2

Work environment

Use temperature: 0 ~ 40 inside door ; - 25 ~ + 50 outside door.

Relative humidity : 85% (25)

Altitude : <2500m

Atmospheric pressure : 80kPa ~ 110kPa

Life of use

More than 10 years

Electromagnetic Compatibility

Satisfy IEC60044 - 8 G/T20847.8

Vibration

GB/T11287-2000 I level

Impact and collision

