

NAQH3便携式微电脑型电能质量分析装置

产品名称	NAQH3便携式微电脑型电能质量分析装置
公司名称	南澳电气（武汉）有限公司
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产品详情

NAQH3便携式微电脑型电能质量分析装置

NAQH3 Portable Microcomputer Power Quality Analysis Set

一、功能特点

1. 便携式微电脑型电能质量分析装置,是专门用于检测电网中发生波形畸变、谐波含量、电压波动与闪变和三相不平衡等电能质量问题的高精度测试仪器装置；同时还具备电参量测试、矢量分析的功能。
2. 可精确测量电压、电流、有功功率、无功功率、相角、功率因数、频率等多种电参量。
3. 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。
4. 电流可采用钳形互感器和直接接入两种方式进行测量。当采用钳形电流互感器测量时操作人员无须断开电流回路，就可以方便、安全的进行测量；当需要对数值进行更高精度的测量时，可采取直接接线的方式，很大程度的保证测试数据的准确度。
5. 可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、闪变、三相电压允许不平衡度和电网谐波。
6. 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。
7. 所有测试界面具备屏幕锁定功能，以方便用户读数和分析数据。
8. 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。定时记录和存储电压、电流、有功功率、无功功率、视在功率、频率、相位等电力参数的变化趋势。

9. 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。
10. 能够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。
11. 可设置不同的存储间隔时间，按设置的时间间隔连续存储数据。
12. 内置大容量数据存储，按1分钟的时间间隔可连续存储18个月以上，能满足长期监测试验点的需要。
13. 仪器具备USB接口，可方便的将数据直接拷贝到后台管理计算机。
14. 与功能强大的数据管理软件配合，可将实时采样数据直接上传到后台管理计算机，在后台进行更全面、更迅速的处理。
15. 配备有万年历、时钟功能，能实时显示日期和时间。可在现场检测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，具备强大的报表功能。
16. 采用大屏幕进口彩色液晶作为显示器，中英文操作界面并配有双语文字提示信息、多参量显示的液晶显示界面，人机对话界面简单易操作。
17. 5分钟无操作，液晶显示将会自动关闭，以便更好程度的延长电池工作时间。
18. 导电硅胶按键，手感好、寿命长、设计合理、操作方便。
19. 内置大容量、高性能锂离子充电电池，充满电连续工作6小时以上。
20. 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。

Features

1. NAQH3 Portable Microcomputer Power Quality Analysis Set, this instrument is designed to detect occurrence of waveform distortion grid, high-precision test equipment harmonic content, voltage fluctuation and flicker and unbalanced three-phase power quality issues; also has electrical parameters of the test vector analysis functions.
2. This set can accurately measure a variety of electrical parameters of voltage, current, active power, reactive power, phase angle, power factor and frequency.
3. It also can display measured voltage and current vector, user can draw metering device wiring if correct or not by analyzing vector.
4. Current clamp transformer and can be connected directly measured in two ways. When split core current transformers measure operator, without disconnecting current loop, it can easily and safely be measured; when the values need to be more accurate measurements can be taken directly to a wired connection, to greatest degree of assurance accuracy of test data.
5. Analysis of measurable utility grid supply AC power to the client's quality, its measurement and analysis: frequency deviation, voltage deviation, voltage fluctuation, flicker, phase voltage unbalance and harmonic.
6. This set can display single-phase voltage and current waveforms, can display three-phase voltage and current waveforms.

7. All test interface with a screen lock feature to facilitate reading and analysis of user data.
8. Monitoring of load fluctuations: Measurement and analysis of fluctuations variety of electrical equipment in different operating conditions on utility grid power quality caused. Timing recording and storage of voltage, current, active power, reactive power, apparent power, frequency, phase, and other electrical parameters trends.
9. Adjustment and operation of electrical equipment dynamic monitoring process to help users solve the power equipment Adjustment and commissioning process problems.
10. This analysis set can test power system reactive power compensation and filtering device, can make a quantitative evaluation of dynamic parameters of their functions and technical specifications.
11. You can set a different storage time intervals, according to the set time interval between successive storing data.
12. Built-in high-capacity data storage, at one minute intervals may be stored continuously for 18 months or more, to meet the needs of long-term monitoring of test point.
13. The instrument includes a USB interface, you can easily copy the data directly to backstage management computer.
14. It have powerful data management software, real-time sampling data can be uploaded directly to the background management computer, in background a more comprehensive and more rapid treatment.
15. with calendar, clock function, real-time display date and time. In the field of detection while preserving test data and results, and uploaded to computer through serial port, computerized data management through background management software (optional), with strong reporting capabilities.
16. Use imported large-screen color LCD as display, English & Chinese interface, English and Chinese characters with message, multi-parameter display LCD interface, friendly interface English & Chinese man-machine dialogue.
17. Have five minutes no operation LCD automatically turns off, in order to maximize the extended battery life.
18. The conductive silicone keys, feel good, long life, reasonable design, easy to operate.
19. Built-in high-capacity, high-performance lithium-ion rechargeable battery, full power continuously for more than six hours.
20. Small size, light weight, easy to carry, both for on-site measurements, can also be used as laboratory standards metering equipment.

二、技术指标

1. 输入特性

电压测量范围：0 ~ 200V ~ 800V两档。

电流测量范围：

内置互感器：5A(CT)档0.05~5A（选配）

钳形互感器：0.05 ~ 5A ~ 25A（标配）

10A ~ 100A ~ 500A（选配）

相角测量范围：0~359.99°。

频率测量范围：45~55Hz。

电压通道数：三通道（UA、UB、UC）。

电流通数：三通道（IA、IB、IC）。

谐波分析次数：64次。

1分钟间隔连续存储周期：18个月。

2. 准确度

电参量测量部分：

电压：±0.2%

频率：±0.001Hz

电流、功率：±0.5%（钳形互感器±1.0%）

相位：±0.1°（钳形互感器±0.2°）

电能质量部分：

基波电压允许误差 0.5%F.S.

基波电流允许误差：1%F.S.

基波电压和电流之间相位差的测量误差：0.2°

谐波电压含有率测量误差：0.1%

谐波电流含有率测量误差：0.2%

三相电压不平衡度误差：0.2%

电压偏差误差：0.2%

电压变动误差：0.2%

3. 工作温度：-10 ~ +40

4. 充电电源：AC100V ~ 220V、频率45Hz-55Hz

5. 主机功耗：3VA

6. 电池工作时间： 6小时

7. 绝缘： 、电压、电流输入端对机壳的绝缘电阻 100M。

、工作电源输入端对外壳之间承受工频1.5KV（有效值），历时1分钟实验。

8. 体积：260mm × 160mm × 60mm

9. 重量：1.6 Kg

Technical indicators

1. Input Characteristics

Voltage measuring range: 0 ~ 200V ~ 800V two tranches.

Current measurement range:

Built-in transformer: 5A (CT) file 0.05 ~ 5A (optional)

Clamp Transformer: 0.05 ~ 5A ~ 25A (standard)

10A ~ 100A ~ 500A (optional)

Phase angle measuring range: 0 ~ 359.99 ° .

Frequency Measurement Range: 45 ~ 55Hz.

Voltage channels: three-channel (UA, UB, UC).

Current Channel books: three-channel (IA, IB, IC).

The maximum number of harmonic analysis: 64 times.

At one minute intervals Maximum continuous storage period: 18 months.

2. Accuracy

Measurement of electrical parameters section:

Voltage: ± 0.2%

Frequency: ± 0.001Hz

Current, power: ± 0.5% (clamp transformer ± 1.0%)

Phase: ± 0.1 ° (clamp transformer ± 0.2 °)

Power quality parts:

Fundamental voltage tolerance 0.5% F.S.

Fundamental current allowable error: 1% F.S.

Phase measurement error between the fundamental voltage and current: 0.2 °

Harmonic voltage measurement error: 0.1%

Harmonic content of current measurement error: 0.2%

Three-phase voltage unbalance error: 0.2%

Voltage deviation error: 0.2%

Voltage fluctuation error: 0.2%

3. Working temperature: -10 ~ + 40

4. Charging power supply: AC100V ~ 220V, 45Hz-55Hz frequency

5. Host Power: 3VA

6. Maximum battery operating time: 6 hours

7. Insulation:

, voltage, current input on the chassis insulation resistance 100M .

, working between the power input to the shell to withstand frequency 1.5KV (rms), for one minute experiment.

8. Volume: 260mm × 160mm × 60mm

9. Weight: 1.6 Kg