

## Sensitivity calibrator

### 迷你型校正仪MC-20 Mini calibrator MC-20

#### MC-20可对加速度传感器进行现场标定。

压电加速度传感器被广泛用于振动分析和旋转机械的故障诊断。加速度传感器在使用一段时间后通常需要进行灵敏度校准，但由于传统的校准装置非常昂贵，用户不得不将传感器送到制造厂家去进行校准，这往往需要耗费很长的时间。

MC-20将加振器，放大器和显示屏集成在一起。在任何时候，你只需要将加速度传感器固定在加振器上，就可以对传感器的灵敏度进行快速校准。

#### The MC-20 directly calibrates accelerometers, on site

Piezoelectric accelerometers are widely used to analyze vibrations and diagnose the performance of rotating machinery. Checking the sensitivity of accelerometers after they have been used under harsh conditions or for a long time has usually been left to the manufacturers because of the expensive calibration equipment required.

The MC-20 integrated the exciter, amplifier and display in a single unit. All you have to do is attach the sensor, for a speedy calibration of the sensor's sensitivity. You will now be able to gather reliable data with confidence, any time that you need to.

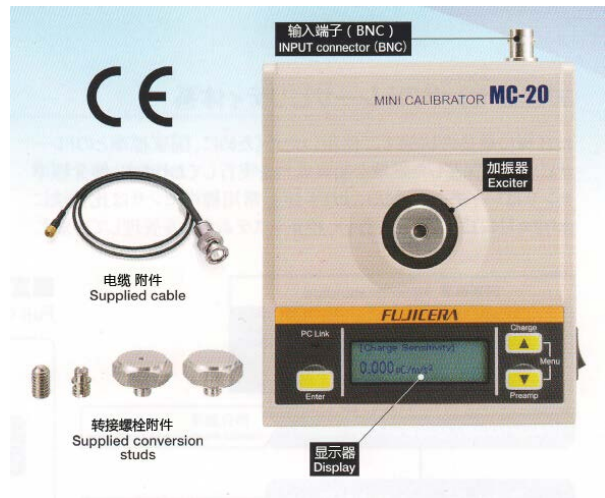
- MC-20主机最大可保存100数据 (灵敏度、DC装置电压、日期/时间)
- 可以将数据传送到PC
- 可以使用电池或AC电源
- Up to 100 data can be stored in the unit of MC-20 (Sensitivity, DC bias voltage, date and time)
- Data can be transferred to PC
- Powered by batteries or AC cable

#### 技术参数

- 灵敏度校准精度 0.101~19.99pC(mV)/m/s<sup>2</sup>+(3%+1digit)  
0.026~0.100pC(mV)/m/s<sup>2</sup>+(10%+1digit)
- 校准模式 单次、重复 可选
- 电压测定精度 +1V以内
- 加振器加速度 10m/s<sup>2</sup>+3%
- 加振器振动频率 159.2Hz+1%
- 谐波失真 ≤3%
- 可校准传感器最大重量 ≤100g
- 传感器质量过大报警 显示【OVER】、同时停止加振
- 为内置放大器的传感器提供驱动电源 驱动电压24V和15V可选，驱动电流0.5mA、2mA、4mA可选 专用交流电源适配器 或AA型干电池4节（推荐使用）
- 电源 ≤4.25V+0.1V
- 电压过低报警 +10~+40 C
- 工作温度范围 -10~+50 C
- 存储温度范围 ≤90%RH
- 工作湿度范围 100数据
- MC-20数据保存数 设定自动关机功能时，3分钟无动作自动关机
- 自动关机 ON、OFF开关切换
- 显示屏背光 Φ20、加振器的台座中心M6深6.5mm
- 传感器安装螺孔 120(W)X140(D)X50(H) mm
- 外形尺寸 约1kg
- 重量

#### 随机附件

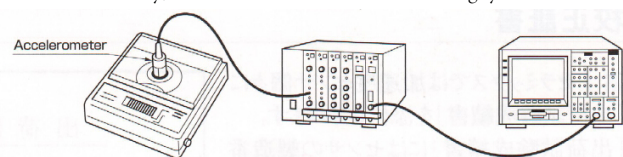
- 电缆 LN-030 0.5m 低噪音BNC同轴电缆1根
- USB电缆 USB电缆1根
- 转接头 M6-M3螺母、M6-No.10-32UNF、M6-flat、M6螺栓，各1只
- 手提箱 1只
- 电源适配器 DCP01 交流电源适配器1个
- 软件安装光盘 CD-ROM 1张
- 硬件使用说明书 1本
- 数据传输软件使用说明书 1本



#### 使用方法示例 Example of calibrator in use

(例1)  
将传感器的输出直接输入，来查传感器的灵敏度。  
(Example 1)  
Directly input the sensor output, and check the sensitivity.

(例2)  
只使用加振器部分，配合振动测量系统从而达到校准传感器的目的。  
(Example 2)  
Use the exciter only, and calibrate the vibration measuring system.



#### Specifications

- PE/IEPE calibration accuracy Sensitivity 0.101~19.9pC(mV)/m/s<sup>2</sup>+(3%+1digit)  
Sensitivity 0.026~0.100pC(mV)/m/s<sup>2</sup>+(10%+1digit)
- Calibration mode Single/Repeat
- Accuracy measure to DC bias voltage ≤+1V
- Exciter vibration acceleration 10m/s(rms)+3%
- Exciter vibration frequency 159.2Hz+1%
- Harmonic Distortion ≤3%
- Calibratable sensor weight ≤100gm
- Alarm over weight Indicates 「OVER」 and Exciter is stop
- Power supply for IEPE accelerometers Voltage DC24V/DC15V  
Constant current 0.5mA/2.0mA/4.0mA
- Power requirement AC adapter or 4 AA batteries(alkaline)  
Continuous work is approx. 1hour by 4 AA batteries
- 4 AA batteries alarm lamp ≤4.25V+0.1V
- Operating temperature range +10~+40 C
- Storage temperature range -10~+50 C
- Storage humidity range ≤90%RH
- Internal data memory 100 data
- Auto Power off (on/ off) approx.3 minutes
- Display backlight ON/OFF
- Sensor mount space Φ20mm, M6 female(depth 6.5mm)
- Dimensions 120(W)×140(D)X50(H) mm
- Weight approx 1kg

#### Accessories included

- Cable LN-030 0.5m Miniature-BNC 1
- USB cable USB01 1
- Conversion studs M6-M3 female, M6-10-32, M6-flat, M6 standard stud(one each)
- Hard Case 1
- AC adapter DCP01 1
- Data transfer software CD-ROM 1
- Instruction manual 1
- Instruction manual for data transfer 1

产品外观或参数如有更改，恕不另行通知，敬请浏览网页：<http://www.ndttech.net>

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