

# 灵敏度校正仪 MC-30

【ACCELEROMETERS】

## Sensitivity calibrator

### 迷你型校正仪MC-30 Mini calibrator MC-30

#### MC-30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-30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-30 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-30 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-30主机最多可保存100条数据(灵敏度、DC偏置电压、日期/时间)
- 可通过电脑进行操作(包括数据传输)
- 可使用电池或AC电源
- Up to 100 data can be stored in the unit of MC-30.  
(Sensitivity, DC bias voltage, date and time)
- Can be configured and operated directly from your PC (incl. data transfer)
- Powered by batteries or AC cable.



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

(例1)

将传感器的输出直接输入,来检查传感器的灵敏度。

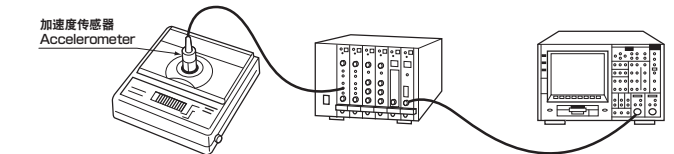
(Example.1)

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.



#### 技术参数

- 灵敏度校准精度 0.101~19.9pc/(m/s<sup>2</sup>) 或 mv/(m/s<sup>2</sup>): ±(3% + 1 digit)  
0.026~0.100pc/(m/s<sup>2</sup>) 或 mv/(m/s<sup>2</sup>): ±(10% + 1 digit)
- 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>(rms)±3%
- 加振器振动频率 159.2Hz±1%
- 谐波失真 ≤3%
- 可校准的传感器最大重量 ≤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 驱动电压 24V 和 15V 可选
- 提供驱动电源 驱动电流 2.0mA 和 4.0mA 可选
- 电源 专用交流电源适配器或 AA 型干电池 4 节  
※ 用 AA 型碱性干电池规格连续驱动约 10 小时。
- 电压过低报警 ≤4.25V±0.1V
- 工作温度范围 +10~+40°C
- 存储温度范围 -10~+50°C
- 工作湿度范围 ≤90%
- MC-30 内数据保存数量 最多 100 条数据
- 自动关机 当设定自动关机功能时,3 分钟无动作自动关闭电源
- 显示屏背光 根据 Hi、Lo 选择 ※ 带自动关灯功能
- 传感器安装螺孔 φ20mm、加振器的台座中心 M6 深 6.5mm
- 外形尺寸 120(W)×140(D)×50(H)mm
- 重量 约 1kg

#### 随机附件

- 电缆 LN-030 0.5m 低噪声 BC 同轴电缆 1 根
- USB 电缆 1 根
- 转接头 M6-M4、M6-10-32、M6-flat、M6 标准螺栓,各 1 只
- 手提箱 1 只
- 电源适配器 1 个
- 硬件使用说明书 通过官网网站下载
- 数据传输软件使用说明书 通过官网网站下载

#### Specifications

- PE / IEPE calibration accuracy Sensitivity 0.101~19.9pc/(m/s<sup>2</sup>) or mv/(m/s<sup>2</sup>): ±(3%+1 digit)  
Sensitivity 0.026~0.100pc/(m/s<sup>2</sup>) or mv/(m/s<sup>2</sup>): ±(10%+1 digit)
- Calibration mode Single/ Repeat
- Accuracy measure to DC bias voltage ≤±1V
- Exciter vibration acceleration 10m/s<sup>2</sup>(rms)±3%
- Exciter vibration frequency 159.2Hz±1%
- Harmonic distortion ≤3%
- Calibratable sensor weight ≤100g
- Alarm over weight Indicates [OVER] and Exciter is stop
- Power supply for IEPE accelerometers Voltage DC24V/DC15V  
2.0mA/4.0mA
- Power requirement AC adapter or 4 AA batteries  
Continuous work is approx. 10 hours by LR6 batteries.
- LR6 batteries alarm lamp ≤4.25V±0.1V
- Operating temperature range +10°C~+40°C
- Storage temperature range -10°C~+50°C
- Storage humidity range ≤90%
- Internal data memory 100 data max.  
approx. 3 minutes
- Auto power off (on/off) Hi/Lo \*With automatic light-off function
- Display backlight φ20mm, M6 female (depth 6.5mm)
- Sensor mount space 120(W)×140(D)×50(H)mm
- Dimensions approx. 1kg
- Weight

#### Accessories included

- Cable LN-030 0.5m Miniature-BNC 1
- USB cable 1
- Conversion studs M6-M3 female, M6-10-32, M6-flat, M6 standard stud (one each)
- Hard case 1
- AC adapter 1
- Instruction manual Download from the website
- Instruction manual for data transfer Download from the website