



From only
£99

Cost-effective servicing & calibration to protect your valuable investment

Your noise measurement instruments are a valuable investment and so maintaining the accuracy and performance of your equipment is vital, especially if you need to meet any regulations, standards or guideline, e.g. the Noise at Work Regulations.

Regular servicing and calibration are an important part of this and as the original manufacturer, only Cirrus can provide you with the care and attention that you should demand for you Cirrus instruments.

Our fixed price service and calibration gives you a cost effective way to ensure that you are compliant with any regulations and that your equipment is kept in peak condition.

Why is calibration of my noise measurement equipment important?

Noise measurement instruments are designed to measure very small changes in pressure and convert these into the information that we are familiar with.

They must meet detailed specifications and performance criteria and any damage to the microphone or measurement chain can affect the accuracy of any measurements that you make.

Regular servicing and calibration can help to identify and resolve any issues and can maintain the level of performance that your equipment had when it was new. Think of this as an MOT for your noise instruments.

Key benefits of a Cirrus service and calibration include:

- Verification and assurance that the equipment is still accurate
- A full check of all of the instrument functions with any necessary adjustments made
- Fixed price service and calibration so you know what the cost will be
- A full service of all of the parts with minor repairs included
- A Certificate of Calibration for use in reports and traceability
- Collection service available

It is also worth considering that if you are working within quality systems such as ISO 9001 and ISO 14001, these will require you to manage and maintain systematic, documented evidence of calibration.

Don't forget that when you have your equipment serviced and calibrated by Cirrus, we'll extend your warranty for a further 12 months, free of charge. (T&C's apply).

I am using an acoustic calibrator each time I make a measurement. Do I still need to have my equipment serviced and calibrated?

Your acoustic calibrator calibrates the sound level meter at one frequency and one level.

This does not check the other frequencies and levels that your equipment will deal with during a measurement and does not check the performance against other types of noise, e.g. impulse noise.

You should always check your equipment each time it is used to check that the overall calibration is still accurate but this does not replace regular servicing and calibration of the equipment.

When you have your equipment serviced and calibrated by Cirrus, we will check all of the functions and capabilities of the instrument against the original specifications and ensure that it continues to meet them.

To keep your measurements accurate you should always continue to calibrate before and after each measurement as well as having your instruments serviced and calibrated by Cirrus at regular intervals.

Our customer services department will be pleased to discuss any questions you have and to arrange for the service and calibration of your equipment.

You can call our customer services on 0845 230 2434 or +44 1723 891655 from outside of the UK.

You can also visit our website at www.cirrusresearch.co.uk/calibration for more information.

Do you have any questions?

Call us on 0845 230 2434 or email sales@cirrusresearch.co.uk

What happens during a service and calibration?

When your instrument comes to Cirrus for calibration and servicing, we carry out a comprehensive check of the performance of the unit.

The exact number of tests that will be carried out will depend upon the functions that your instrument can provide.

Every function that is available on your instrument is checked to ensure that it meets the same specifications

as when the instrument was new. Some instruments will have over 350 separate performance checks carried out.

Listed below is a summary of the main areas that are checked during a calibration at Cirrus.

If you would like any further information, please call us on 0845 230 2434 or email sales@cirrusresearch.co.uk and we will be pleased to help.

Sound Level Meters

- ✓ **Visual Inspection:**
 - Check for any damage to the microphone, case and display
- ✓ **Internal Software Check:**
 - Check firmware version and upgrade where required
 - Check the clock, calibration due date and memory status
 - Download any customer measurements
- ✓ **Instrument Performance Verification**
 - Remove the microphone capsule and connect the instrument to the test system and check the performance of the instrument against the original design specifications. Adjust the instrument where required.
- ✓ **Microphone Capsule Performance:**
 - Connect to the microphone calibration system and check the Frequency Response & Absolute Sensitivity
- ✓ **System Acoustic Calibration:**
 - Reconnect the microphone capsule and carry out an acoustic calibration
- ✓ **Memory Storage & Download Test:**
 - Run the instrument for an extended period and download data
 - Verify data download
- ✓ **Final Checks**
 - Clear the instrument memory & calibrate using the customer's Acoustic Calibrator where available
 - Reset the calibration due date
 - Issue a Certification of Calibration for the Sound Level Meter
 - Clean the instrument
 - Pack and ship the instrument to the customer

doseBadge Noise Dosemeter & Reader

- ✓ **Visual Inspection**
 - Check for any damage to the instruments
- ✓ **Internal Firmware Check**
 - Check internal firmware version and upgrade where required
- ✓ **Battery Life Check**
 - Charge & discharge the battery x 2
 - Verify the run duration & data for each cycle
- ✓ **Performance Verification**
 - Connect to the test system and check the performance of the instrument against the original design specifications
 - Adjust the instrument where required
 - Connect the Reader Unit to the test system and check the performance of the instrument
 - Calibrate the doseBadge with the customer Reader Unit

Acoustic Calibrators

- ✓ **Visual Inspection**
 - Check for any damage to the calibrator
- ✓ **Internal Firmware Check**
 - Check internal firmware version and upgrade where required
- ✓ **Instrument Performance Verification**
 - Connect the calibrator to the Acoustic Calibrator test system and check the performance of the instrument against the original design specifications.
 - Adjust the instrument where required.
- ✓ **Final Checks**
 - Issue a Certification of Calibration for the Acoustic Calibrator
 - Clean the instrument
 - Pack and ship the instrument to the customer

Please note that some of these tests may be skipped if your instrument does not have the functionality, data logging or frequency band filters. This is a summary of the tests performed and are shown as an example only. Full details of the tests carried out are available on request from Cirrus Research plc.



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