

Casella CEL UKAS Laboratory

What's in it for YOU

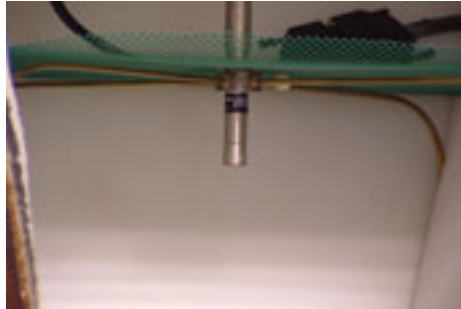


Illustration 1: Microphone Mounted for Measurement in the Free Field Apparatus

What Happens When a SLM is Calibrated?

The first thing that happens is we check that the unit can be calibrated by the Laboratory.

If we cannot then we immediately tell you. As a laboratory we pride ourselves on our customer communication. You always know what we are doing to your equipment.

We test the unit before embarking on Calibration to ensure that all is well

The Microphone is tested so that the free field frequency response can be applied when the SLM is UKAS tested.

If required the calibrator is calibrated using the Insert voltage method

After all that preparatory work the SLM is tested to the relevant Standard for the unit.

When all is complete we generate a certificate with the results of the test and it is independently checked by another member of staff.

The unit is cleaned, labeled and dispatched to the customer with the certificate. All results are held on file for six years so that if there is a query then you, the customer, have the assurance that we can replicate a copy of your certificate should you require it.

To summarize

1. Check The Unit Can be Calibrated
2. Pre-Test Unit
3. Test Microphone
4. Calibrate Calibrator (If Necessary)
5. Test Sound Level Meter
6. Create Certificate
7. Check Certificate
8. Dispatch to YOU the Customer

The full schedule for the Laboratory can be found at

http://www.ukas.org/calibration/lab_detail.asp?lab_id=410&vMenuOption=3.

The Laboratory reference Number is **0237**

Calibrators

The Laboratory is accredited by UKAS for the determination of the Sound Pressure Level (SPL) of sound calibrators.

Calibrators undergo a similar checking procedure to Sound Level Meters but as it is the sound pressure level that is being determined conformance to a standard is not required. We calibrate ALL calibrators and pistonphones that are capable of a ½ inch configuration.

We even have the capability to measure the pressure coefficient of the calibrator over the range of 65.0 kPa to 108.0 kPa, although this is not UKAS accredited.

Again like the sound level meter certification and checking takes place before despatch to the customer.

Microphones

The Laboratory is accredited by UKAS for the determination of the sensitivity of condenser microphones which when taken with our free field frequency response test can give a complete assurance of a microphones health.

Casella UKAS Laboratory

With over thirty years measurement experience the Casella Acoustics Laboratory can solve your measurement problem.

As a UKAS Laboratory since 1988 and accredited to BS EN 17025 you can be assured of the quality of the work done.

As a company that has grown from research co-operation between the National Physical Laboratory and Computer Engineering Ltd. In the late 1970's. Casella CEL manufactures and calibrates acoustic equipment to the Highest Standards.

“You will come across laboratories that are certified to ISO9000:2000. This standard only relates to the laboratory’s quality management systems. It does not specifically evaluate the technical competence of a laboratory. It should never be confused with ISO 17025 or thought of as an ‘acceptable’ alternative.”

UKAS publication “Don't Risk It” page 4

The Advantages

- **UKAS Accredited**
- **Test and Calibrate Sound Level Meters, Microphones and Calibrators.**
- **Any manufacturer for sound level meters with a ½ inch microphone.**
- **We manufacture Acoustic equipment which gives us an unparalleled insight into Acoustic problems.**

We know what the equipment can do.

Casella CEL

Making Measurement Count

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