

doseB⁵adge

The new generation of noise dosimeter

CR:120A doseBadge⁵ Quick Start Guide



The doseBadge⁵ has been designed to allow occupational noise exposure levels to be measured quickly and effectively.

This Quick Start guide will get you started but we recommend that you refer to the full user manual to get the best from your equipment.

Full operating instructions and details of all of the functions of the doseBadge⁵ are provided in the CR:120A doseBadge⁵ user manual which is supplied on the NoiseTools DVD. The user manual can also be downloaded from the Cirrus website at www.cirrusresearch.co.uk/library/user-manuals/

| Step | Action | Optional actions |
|------|--------------------------------------|---|
| 1 | Charge the doseBadge ⁵ | |
| 2 | | Clear the memory |
| 3 | Check the configuration | Configure the integrators & peak channels |
| | | Enable or disable Octave Band Filters (where available) |
| 4 | | Program scheduled timers |
| | | Allocate instruments to a person, place or project |
| 5 | Calibrate the doseBadge ⁵ | |
| 6 | Attach to the worker | |
| 7 | Start the measurement | |
| 8 | | Pause the measurement |
| 9 | | View mid-shift readings |
| 10 | Stop the measurement | |
| 11 | Remove from the worker | |
| 12 | Check the calibration | |
| 13 | Download the measurement data | |

Charging

Charge the doseBadge⁵ by placing it onto any available slot on the Dock. Ensure that power is connected to the Dock.

Typically, the CU:120A Dock will charge a doseBadge⁵ from flat in around 3 hours.

The Blue LED next to each docking point will show when the connection between the doseBadge⁵ and the Dock has been made. The indicators on the doseBadge⁵ will show the charging status as follows:



Charging: Solid Orange



Fully Charged: Solid Green

Check the configuration

The doseBadge⁵ will use the last configuration that was programmed into the unit and so it is not usually necessary to change the settings of the instrument.

In a doseBadge⁵ unit that has 1:1 Octave Bands, these can be switched on or off as needed. Please note that enabling the 1:1 octave band filters will reduce the battery life of the instrument.

To check the current configuration, connect the doseBadge⁵ to the NoiseTools software or the dBLink App. Make any changes required and save them to the instrument.

If any scheduled timers have been programmed into the instrument, these will become active when the doseBadge⁵ is removed from the Dock.

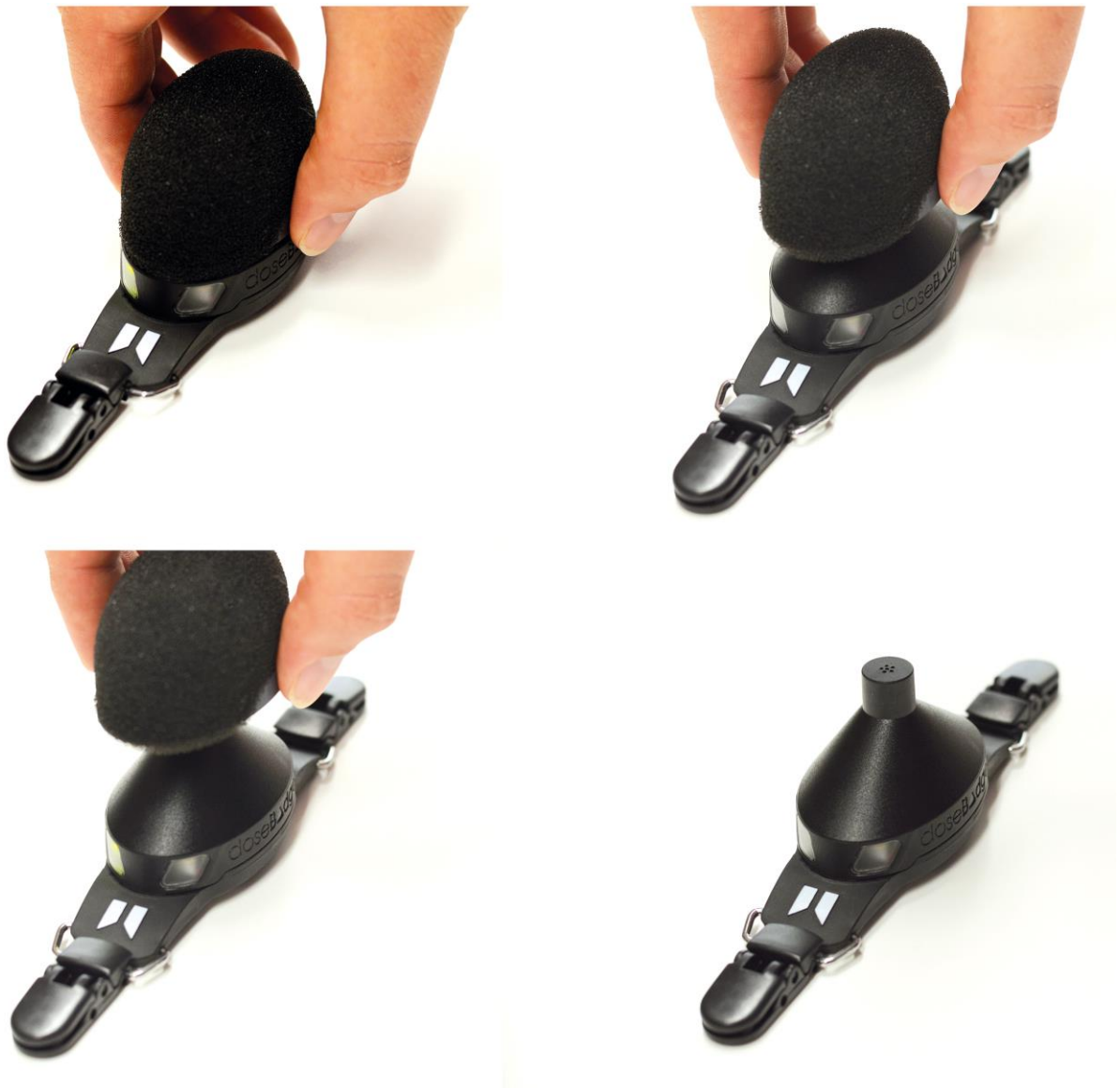
Calibrate

The doseBadge⁵ will not enter calibration mode if a measurement is running or paused. Ensure that the instrument is stopped before calibrating (if the Blue LED is flashing, the instrument is running or is in pause mode).

Removing the windshield

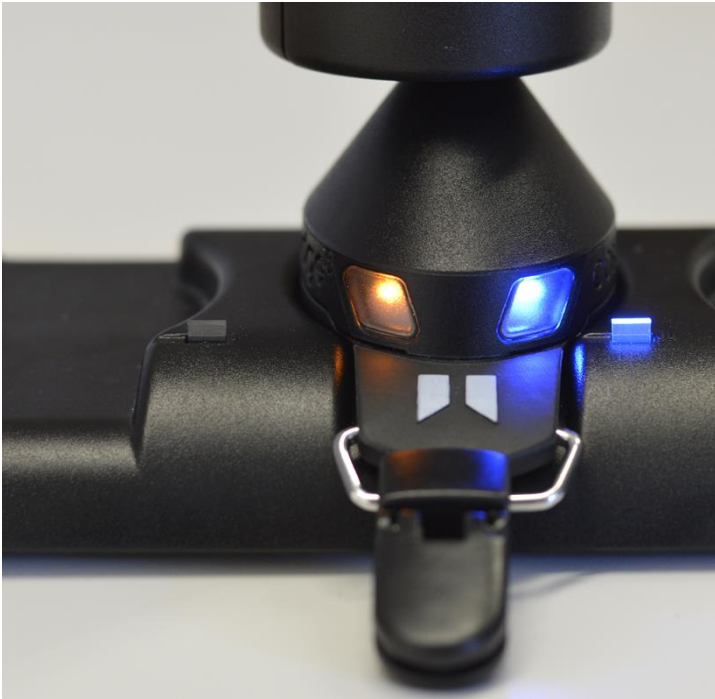
The windshield is secured to the doseBadge⁵ using a plastic carrier. To remove the windshield, carefully press on the sides of the windshield carrier and pull the assembly away from the body of the instrument.

Do not pull the foam windshield as this may cause damage.



Connect the acoustic calibrator to the doseBadge⁵ microphone and switch on the calibrator.

The doseBadge⁵ will automatically detect the acoustic signal from the calibrator and will start the calibration process.



If the level provided by the acoustic calibrator is within the tolerances acceptable to the doseBadge⁵, the instrument will calibrate.

When calibration is complete, the Blue LED on the doseBadge⁵ will show for 5 seconds.

If the calibration fails, the Red LED on the doseBadge⁵ will show for 5 seconds.

When the calibration is complete, remove the acoustic calibrator and replace the windshield.

To re-attach the windshield, press the assembly back onto the body of the doseBadge⁵ taking care to ensure that it is securely located.

Attach the doseBadge⁵

Securely attach the doseBadge⁵ to the worker using the mounting clips.

It is recommend that the doseBadge⁵ is mounted close to the ear, typically within 10-15cm (4" to 6").

This will help to avoid reflections from the head which can affect measurements.

The microphone should be as vertical as possible and the windshield should always be attached before measurements are started.

Start the measurement

Measurements can be started using one of the following options. Once measurement has been started, the Blue LED will flash every 2 seconds.

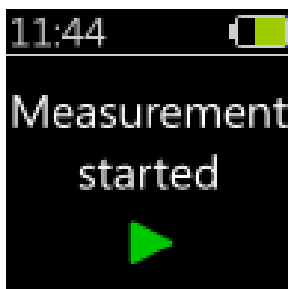
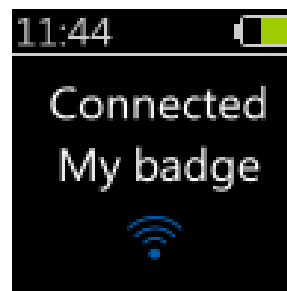
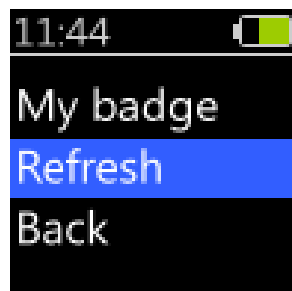
1. Through the NoiseTools software

To start a measurement, select the instrument required in the Dock view and press the green Start arrow. The instrument will begin a new measurement.

The Green start arrow will become a Red Stop button allowing measurements to be stopped manually.

2. With the RC:120A dBConnect

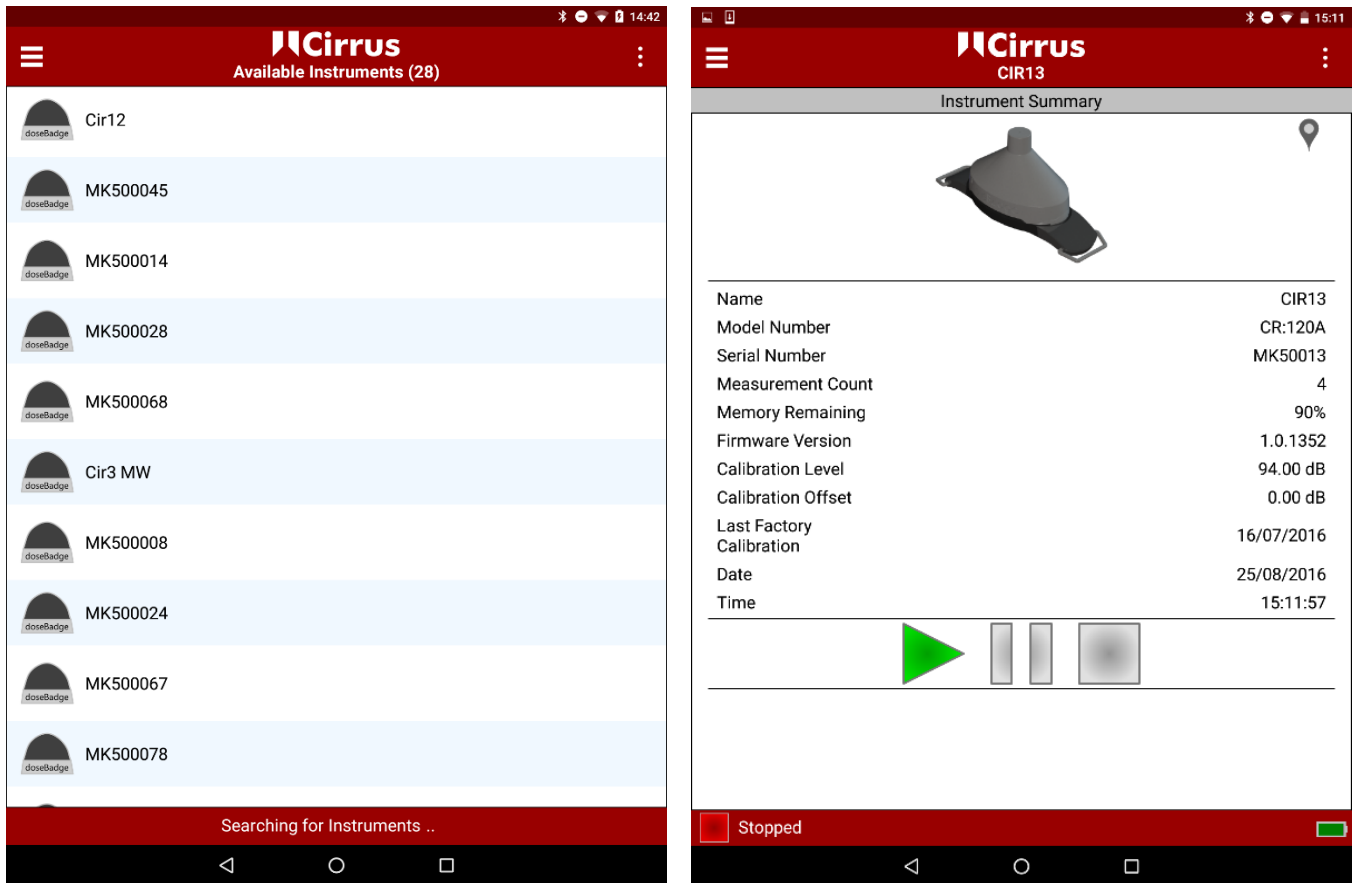
Connect to the doseBadge⁵ instrument and select the measure option as shown below:



When the instrument is not measuring, the only option is to start a measurement.

Pressing the Left button will start a measurement and a confirmation will appear for a few seconds.

3. With the dBLink App



To start a measurement with the dBLink App, select the required instrument from the instrument discovery window and press the Green run button.

Press again to confirm.

The measurement will start and the available options will change from Start to Pause and Stop.

4. Starting measurements with scheduled timers

If scheduled measurements have been configured and enabled in the doseBadge⁵ unit, they will be active once the instrument has been removed from the Dock.

Remove the doseBadge⁵ from the Dock and connect to the worker. Measurements will start, pause and stop as defined by the scheduled measurement settings.

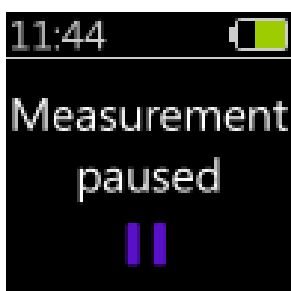
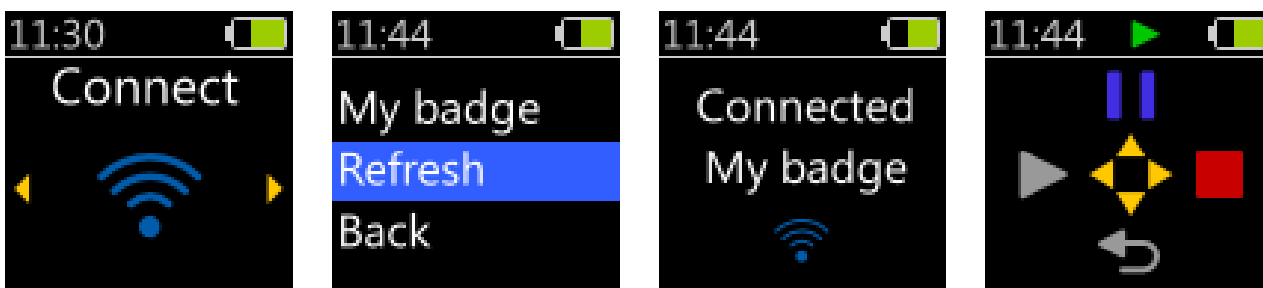
Note that when the doseBadge⁵ is connected to a power CU:120A Dock, the scheduled measurements will not be activated. Remove the instrument from the Dock to allow scheduled timers to run.

Pausing the measurement

Measurements can be paused using one of the following options. When a measurement is paused, the Blue LED will flash once every 5 seconds.

Pausing a measurement with the RC:120A dBConnect

Connect to the doseBadge⁵ instrument and select the control option as shown below:



When the instrument is measuring, the options are to either pause it or stop it. The small green “Recording” icon in the status bar indicates that the instrument is measuring.

Pressing the Up button will pause the measurement and a confirmation will appear for a few seconds.

Pausing a measurement with the dBLink App

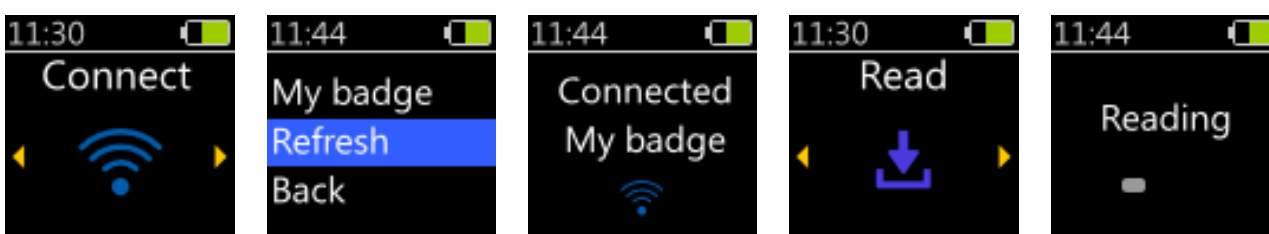
To pause a measurement with the dBLink App, connect to the required instrument that is running and from the instrument discovery window, press the blue pause button.

Press again to confirm.

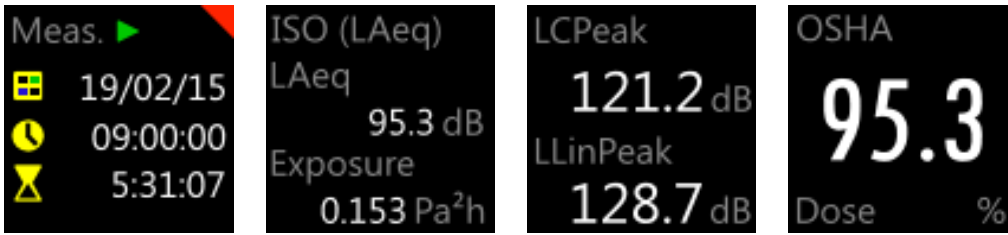
Mid-Shift Readings

Using the RC:120A dBConnect

Connect to the doseBadge⁵ instrument and select the Read option as shown below:



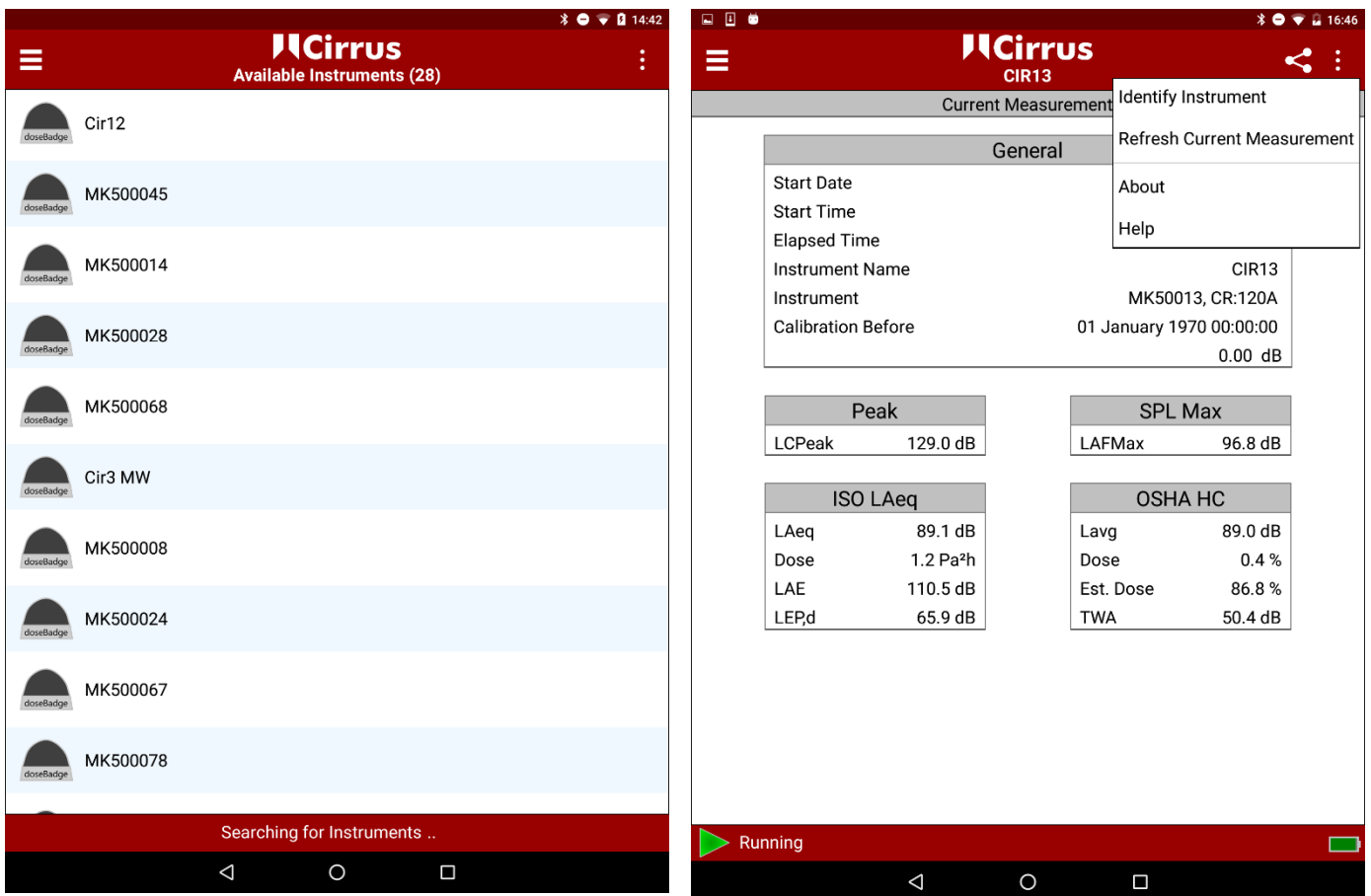
The Wand will read the current measurement information from the doseBadge⁵. Use the left and right keys to move between the information for the current measurement: Various measurement views can be configured through the NoiseTools software.



The word Meas. and the green icon shows that the badge is running and that this is a mid-shift reading. Press the round center key to exit from the reading.

Using the dBLink App

To view the measurement status of an instrument whilst it is running select it from the discovery window.



If the badge is running, the current measurement data will be displayed below the badge information.

To view the measurement data for other integrators and the other measurement parameters, select the badge and swipe to view the Current Measurement screen or use the menu to select the View Measurements option.

The current information can be refreshed by selecting the menu in the top right selecting Refresh Current Measurement.

Please note that to reduce power consumption, the data is not refreshed automatically.

Pressing the refresh icon will load the current measurement data again.

Stopping a measurement

Stopping a measurement with NoiseTools

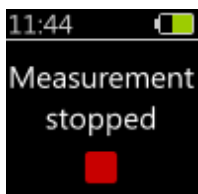
To stop a measurement through NoiseTools, connect the doseBadge⁵ to the Dock and from the Dock window press the Stop Measurement link and the status will change from Running to Stopped.

Stopping a measurement with the RC:120A dBConnect



When the instrument is measuring, the options are to either pause it or stop it.

The small green “Recording” icon in the status bar indicates that the instrument is measuring.



Pressing the Right button will stop the measurement and a confirmation will appear for a few seconds.

Stopping a measurement with the dBLink App

To stop a measurement with the dBLink App, connect to the required instrument that is running and from the instrument discovery window, press the red stop button. Press again to confirm.

The status of the instrument is shown by the Green run, Blue pause and Red Stop buttons.

Scheduled measurements

If a scheduled stop has been programmed into the instrument, this will be activated at the appropriate time and the instrument will end. The

measurement data will be stored in the instrument ready for download or viewing.

Downloading measurements

Downloading to NoiseTools

Connect the doseBadge⁵ to any available slot on the Dock and connect the Dock to the PC. Run the NoiseTools software and open the Dock View.

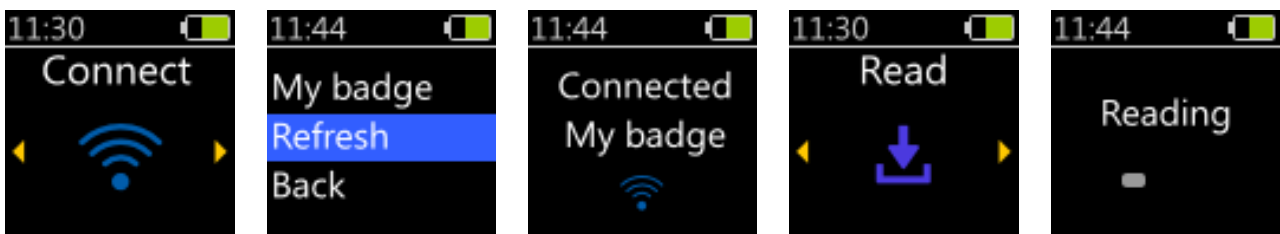
Click download to transfer measurements from the instruments into the NoiseTools software

Viewing measurements with the dBLink App

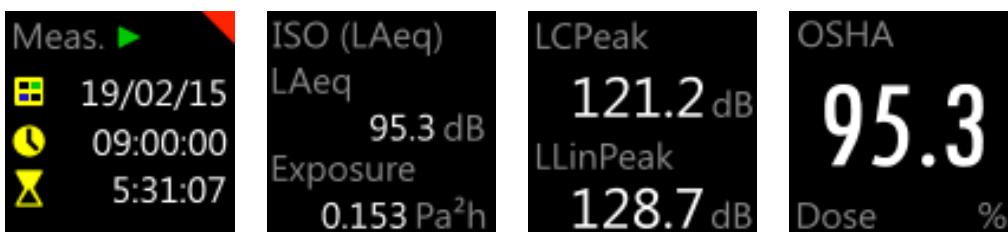
Measurement can be viewed whilst they are being made or at the end of a measurement once the instrument has been stopped in the same way as a mid-shift reading.

Viewing measurements on the RC:120A dBConnect

Connect to the doseBadge⁵ instrument and select the Read option as shown below:



The Wand will read the current measurement information from the doseBadge⁵. Use the left and right keys to move between the information for the current measurement:



The word Meas. and the green icon shows that the badge is running and that this is a mid-shift reading.

Press the round center key to exit from the reading.



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Quick Start Guide

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