Particle Count Meter

Quick start guide

Before Use

Unpack the instrument carefully and keep the packaging for future reuse.

Fully charge the batteries before first use, using the charger provided. Fit the batteries in the correct orientation following the diagram on the charger. The batteries are charging when the lights are orange, and charged when the lights turn blue. A flashing light indicates a faulty battery.

Open the battery compartment on the HandiLaz Mini, and fit the batteries following the diagram inside.

Note that running from the mains adaptor does not charge the batteries.

Remove the plastic cap from the meter and push on the sampling tube.

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Warnings

Read The Manual Before Use.

Do Not Allow Liquids to Enter the Sample Tube.

Refit Protective Cap onto Sample Tube When Not in Use.

No user serviceable parts inside. Do not open the meter.

Operation

To switch on, press the POWER button.

To switch off, press and hold the POWER button.

We recommend that the unit is set to counts per m^3 as this allows direct comparison to EC recommended figures. See page 5-2 of the manual.

To take a quick reading, turn the meter on and press the START/ STOP button.

When the display shows “PRESS START”, press the START/ STOP button again.

There is a ten-second countdown and the display shows “READY”.

Press the START/STOP button again to start measurement. The meter will record for one minute and display the overall readings.

The HandiLaz Mini is designed primarily for sampling in flow cabinets, cleanrooms and other filtered air environments. Non filtered air has a relatively high particle count so if the meter is used in a normal indoor environment the meter will work correctly but the residual particles must be flushed from the meter before it will accurately measure in a low particle count area.

A zeroing filter is provided to assist with this.

Filter shown in sealed pack as supplied

Remove the filter from the sealed packet, remove the protective cap from the sample tube, carefully fit the supplied clear tube onto the sample tube and to the zeroing filter. Make sure the arrow on the filter points towards the HandiLaz Mini.

Set the meter to continuous sampling mode (page 3-4 of the manual) and run the meter until the display reads zero. It may help to tap the sample tube gently with the fingers to dislodge any remaining particles from inside.

Keep the Zeroing Filter in a sealed bag so it can safely be used again. The filter needs to be replaced if the HandiLaz Mini gives a low airflow warning, (Fault Code F), when using the Zeroing Filter.

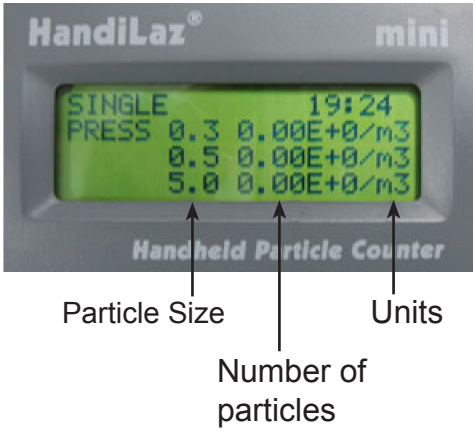
Interpreting the results

EC directives and guidelines

Refer to Directive 2004/23/EC, the EC Guide to Good Manufacturing Practice, Revision to Annex 1 (copies included), and any other legislation currently in force.

Current EU guidelines, recommend that specimens in IVF laboratories are manipulated in “Grade A” air. This means that there should be fewer than 3500 particles of 0.5µm and above per cubic metre and no particles of 5µm and above.

The Display



The number of particles is displayed in scientific notation.

For example: 1.23E+4 = 1.23 x 10^4 = 12300 counts/m^3.