

# HT-9600

## Indicative Particle Counter

### User Manual Addendum

(V1.01 09/09/19) – replaces the tables on pages 3,4,5 of the enclosed Manufacturer's manual

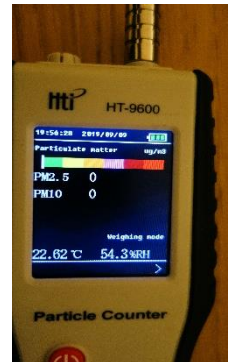
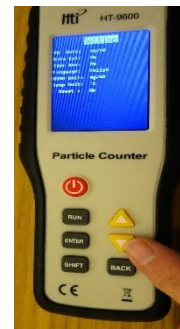
#### Introduction – IMPORTANT!

- The HT-9600 is an “indicative” instrument. It is not a ‘precision’ device in the mould of the Casella CEL-712 or TSI DustTrak.
- It is however a very useful, inexpensive option for checking ‘breakthrough’ on recirculating particulate filters etc.
- The manufacturer claims a +/- 20% error margin. In field trials running alongside a Casella CEL-712 we have found it to be surprisingly close to the CEL-712 recorded values
- The HT-9600 is not suitable for accredited calibration in the normal sense (the calibration costs would be significantly greater than the instrument cost!) however, as an “**indicator**” of dust breakthrough from recirculating particulate filters it can be very effective
- A suggested simple protocol for ‘indicative’ filter breakthrough would be as follows:-
  - Run the unit in a clean environment and note the values recorded. Repeat to obtain 3 stable readings in total
  - Monitor at the outlet from a recirculation filter – again 3 times
  - Empirically, any increase in dust concentrations recorded would suggest that ‘breakthrough’ is occurring
  - If elevated dust readings are recorded at the filter outlet – investigate immediately
  - Experience in the field has shown that if filter ‘breakthrough’ is occurring the readings will usually be very significantly higher than those obtained from the clean environment set-up tests
- The HT-9600 can also be used by site staff as part of their routine checks on filter integrity, with results being recorded in the LEV system Log Book.

## Quick Start - Operation

- The HT-9600 should be ready to operate 'out of the box'. Simply press the **On** button and then the **Run** button.
- The unit pumps air through the optics for 50 seconds (you will see a small countdown timer). It will provide interim readings starting at about 30s remaining.
- If any of the measurement parameters need to be changed – follow the guide below:-

- Switch the unit 'On' to display the Home screen
- Press the **Down** arrow button twice to get the **Settings** menu
- Use the **Enter** button to highlight the word **Settings** at top of menu
- Press the **Shift** button to highlight the parameter to be changed. You can repeat press the **Shift** button to highlight each parameter in turn
- Once the parameter is highlighted – use the **Down** or **Up** arrow to change the setting
- Press **Enter** to store and update the changes
- Press **Back** to return to the main screen



Remember - the HT-9600 is intended to be used as an 'indicative' device.

It should not be used, for example, for determining worker exposures (WELs).

It is not ATEX rated and should not be used in any environment where a risk of ignition/explosion may be present from the substances or processes used there.

## Data Logging

The HT-9600 can store up to 999 results ..... but they cannot be downloaded 😞.

The USB lead provided is, sadly, only for powering the unit in a stationary situation (rather than depleting the internal battery).

To view all records – Press the **Down** button once. Then press the **Enter** key.

You can now page through all logged data by successively pressing the **Down** button.

It is believed that once all 999 records have been entered the oldest data record will be overwritten by the new reading.