



**Critical Environment Technologies Canada Inc.**  
[www.critical-environment.com](http://www.critical-environment.com) [www.yestek.com](http://www.yestek.com)



# ***YESDUST***

*The "Affordable Particulate Sensor"*



## **OPERATION MANUAL**

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## IMPORTANT NOTE

READ AND UNDERSTAND THIS MANUAL PRIOR TO USING THIS SENSOR. CAREFULLY READ THE WARRANTY POLICY, SERVICE POLICY, NOTICES, DISCLAIMERS INDICATED IN THIS MANUAL.

THIS SENSOR SHOULD BE INSPECTED AND TESTED REGULARLY BY A QUALIFIED AND TRAINED TECHNICIAN.

THIS INSTRUMENT HAS NOT BEEN DESIGNED TO BE INTRINSICALLY SAFE. FOR YOUR SAFETY, **DO NOT** USE IT IN CLASSIFIED HAZARDOUS AREAS (EXPLOSION-RATED ENVIRONMENTS).

## WARRANTY POLICY

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ALL GOODS MUST BE SHIPPED TO THE MANUFACTURER BY PREPAID FREIGHT. ALL RETURNED GOODS MUST BE PRE-AUTHORIZED BY OBTAINING A RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER. CONTACT THE MANUFACTURER FOR A NUMBER AND CORRECT PROCEDURES REQUIRED FOR PRODUCT TRANSPORT.

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## PRODUCT OVERVIEW

**YESDUST** is a general purpose, low-cost, hand-held, battery powered particulate sensor designed to be used in conjunction with the YESAIR IAQ monitor. It operates from its own internal rechargeable nickel hydride batteries and connects to the auxiliary port of the YESAIR with the supplied interface cable. The measured readings are displayed as another sensor on the LCD display of the YESAIR. The readings are also data logged to the YESAIR internal flash card, if utilized.

**YESDUST** counts particulates between 1 and 10 microns in size. It has been designed for use as a general purpose indication of a particulate problem and should not be considered for applications requiring high accuracy such as "clean rooms".

**YESDUST** will also communicate with future multi-sensor IAQ monitors developed by Critical Environment Technologies Canada Inc. (CETCI) such as the YES Plus LGA.

## OPERATION

**YESDUST MUST BE OPERATED IN A VERTICAL POSITION. THE SENSOR REQUIRES A ONE-MINUTE WARM UP BEFORE USE.**

Move the sliding switch to the "ON" position to activate the YESDUST. The LED indicator light will turn red, indicating that it is trying to communicate with the YESAIR instrument. If the YESDUST is connected to the auxiliary port of the YESAIR, in approximately 10-seconds or less the LED light will turn green, meaning that the YESDUST and the YESAIR are communicating. The YESAIR will now show the real time readings from the YESDUST on its display, as if another sensor had been installed. If for some reason communications is lost, the LED light on the YESDUST will turn red again.

The YESAIR will display a message saying "Aux port has been removed" if the YESDUST has been removed or stopped communicating for 45 seconds.

Move the sliding switch to the "OFF" position to switch the YESDUST off. If the 9 volt adapter is plugged in, the LED light on the YESDUST will turn yellow, indicating that it is recharging its internal battery pack. When charging is complete, the LED light switches off. If the YESDUST was operating on the internal battery and is switched off, it simply disconnects power to the instrument.

## SPECIFICATIONS

Enclosure Material:	Rugged ABS plastic
Enclosure Dimensions:	4.625" (117.5 mm) W x 6.125" (155.5 mm) H x 2.375" (60 mm) D
Weight:	1.0 lbs. (0.453 kilograms)
Power:	9V wall adapter for rechargeable Nickel Hydride rechargeable battery pack
Battery Life:	5 hours continuous on a full charge
Warm-Up Time:	1-minute
Measurement Range:	1 to 10 microns
Sensor life span:	Internal sensor (7-years). YES recommends once per year service check
Resolution:	250 particles / cubic foot
Sample Method:	Diffusion



## CONNECTION WITH YESAIR



## DIMENSIONAL DRAWINGS



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