

ES-405 Particulate Profiler

The ES-405 is an air quality sensor designed to provide accurate real time measurements of four key particulate concentrations in both indoor and outdoor environments.

This unit reports PM₁₀, PM₄, PM_{2.5}, and PM₁ simultaneously. The sensor incorporates sheath air to prevent particles from contaminating the internal optics of the sensor and prevents particles from escaping. Data output can be configured as fast as each minute or with longer averaging intervals. Send data directly to the cloud for remote download and analysis with a CCS 2 Modem accessory. External meteorological sensors can be connected to the unit.



Specifications

Model Number	ES-405
Operation	Right angle light scatter detection, using a laser diode as light source.
Number of Mass Channels	4
Accuracy	±10% to calibration aerosol
Sample Air Flow Rate	1.0 LPM
Sheath Air Flow Rate	1.0 LPM
Flow Control	PWM Pump driver
Communications Connections	RS-485, RS-232, USB, Optional CCS Modem
Operating Temperature	0° to +50° C
Storage Temperature	-20° to +60° C
User Interface	Menu-driven interface with 4x20 character LCD display and dynamic keypad.
Power Supply	Universal 100-240 VAC input
Power Consumption	10.5-15.5 VDC. Max operating current 1300mA.
Serial Settings	Baud = 9600, 8 data bits, no parity, and 1 stop bit. (Factory Default) 115200, 57600, 38400, 19200, 9600, 4800, 2400 (User Selectable)
Weight	8.5 lbs without power supply, 10 lbs with power supply
Dimensions	Height: 20" Width: 10" Depth: 6"
Communications Protocol	Terminal Command Set