



ATMS - STANDALONE

AEROSOL TEMPERATURE MEASUREMENT SYSTEM

DESCRIPTION

Cerulean's Aerosol Temperature Measurement System (ATMS) is specifically designed for research and quality assurance applications to measure the temperature of aerosol generated from E-cigarettes and Tobacco Heating Products (THPs).

It monitors and records aerosol temperature on a puff-by-puff basis in real-time. This standalone solution enables a variety of aerosol generating machines to benefit from this innovative technology.

The standalone ATMS is comprised of an thermocouple mounted within a Cambridge Filter Holder (up to 20 holders), Data Acquisition device with USB network interface and a portable laptop with pre-loaded intuitive software. With the built-in data logging capability, users can seamlessly store, retrieve and analyse the data captured during experiments off-line.

The Experiment results can be exported (in TSV format) to aid off-line analyses and manipulation of the captured data in excel.

It is a great analytical tool that offer users the ability to monitor in real-time the temperature of aerosol vapour from E-cigarettes and Tobacco Heating Products under test.

FEATURES

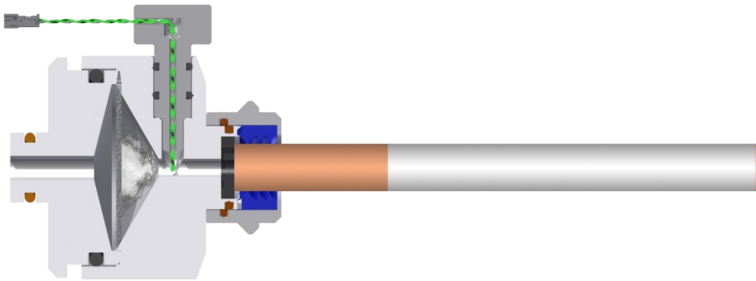
- Real-time monitor of aerosol temperature
- Compatible with E-cigarettes and Tobacco Heating Products
- Intuitive graphical display of vapour temperature per channel
- Specially designed for research and quality assurance purposes
- Compatible with a variety of aerosol generating machines
- Built-in data logging and storage capability

TECHNICAL SPECIFICATIONS

Electrical: (Voltage / Frequency)	110 - 230 V @ 50/60 Hz
Operating Conditions: (Temp / Humidity)	10 to 30°C @ 30 - 85% RH non-condensing
Dimensions (W x H x D):	< 5 channels 110 mm x 200 mm x 80 mm > 5 channels 305 mm x 240 mm x 120 mm

PRODUCT SPECIFICATIONS

Number of ports:	Available in 1, 4, 5, 8, 10, 20 channel versions
Max number of puffs:	65535
Sample rate:	20 Hz (every 50 ms)
Temperature Resolution:	0.01°C
PC (supplied)	Windows 10 portable laptop with pre-loaded intuitive software
Profile:	Square wave



The ATMS uses a thermocouple sensor to measure the vapour temperature from a product.

The aerosol temperature per channel is measured on a puff-by-puff basis in real-time and displayed on the user interface during the vape run.

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