



## HORIBA CO ANALYSER

### VA-5001 SERIES CARBON MONOXIDE ANALYSER

#### DESCRIPTION

Cerulean has a range of Horiba Carbon Monoxide (CO) analysers that can be easily integrated into the broad range of Cerulean smoking machines which allows for accurate measurement of CO gas concentration from conventional cigarettes, cigars and Heated Tobacco Products (HTPs).

These analysers are fully controlled via the smoking machine HMI which removes adjustment of settings via the built-in touchscreen display.

Horiba analysers provide a wide selection of measurement ranges; from parts per million (ppm v/v) ideal for HTP applications to percent (% v/v) concentration ideal for conventional cigarette and cigar applications.

All models are equipped with auto-calibration function and a 5.7-inch touchscreen LCD with real-time trend graph analysis that provides easy recognition of measurement value stabilisation.

The Horiba CO analysers can be seamlessly retrofitted into existing Cerulean smoking machines with Windows 10 operating systems.

For existing Windows XP and Windows 7 machines, the smoking machine will need to be upgraded to Windows 10 before the Horiba analyser upgrade can be completed.

**The Horiba analyser is also available as a retrofittable upgrade to your existing SM4XX smoking machine.**

#### BENEFITS

- Conforms to ISO3308 and ISO4387 when used with Cerulean smoking machines
- Fully integrated with Cerulean linear and rotary machines
- Modbus TCP communication interface with optional I/O
- Continuous data storage via 1GB USB interface
- NDIR Technology
- VA-5001 (10% range) for conventional cigarettes
- VA-5001 (15% range) for cigars
- VA-5001 (ppm range) for Heated Tobacco Products
- Dual Gas CO / CO<sub>2</sub> available

## TECHNICAL SPECIFICATIONS

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| Electrical: (Voltage / Frequency)       | 100 - 240 V @ 50/60 Hz            |
| Operating Conditions: (Temp / Humidity) | 0 - 45°C @ <90% RH non-condensing |
| Dimensions (W x H x D) / Weight         | 430 mm x 132 mm x 380 mm / <18 kg |

## EQUIPMENT SPECIFICATIONS

|                         |                                   |
|-------------------------|-----------------------------------|
| Operating Principle:    | NDIR                              |
| Flow rate:              | 1.2 l/min                         |
| Response time:          | 5 seconds                         |
| Linearity:              | ± 1.0% FSD                        |
| Analogue Input / Output | AI: 4ch, 0-20mA / AO: 8ch, 0-20mA |
| Digital Input / Output  | DI: 16ch, 24V / DO: 16ch, 30V     |

## VARIANTS AVAILABLE

The Horiba analyser is available in four variants:

- 0 - 10% vv for cigarettes
- 0 - 15% vv for cigars
- 2000PPM vv for Tobacco Heated Products
- Dual Gas CO / CO<sub>2</sub> 10% / 2000ppm

## You also might like.....

SM450NGP - for next generation product smoking



SM450 - for conventional product smoking



**CONTACT YOUR REGIONAL SALES MANAGER FOR MORE INFORMATION**

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