

for instant inspection and analysis. The heart of the system is comprised of Sensors' NDIR, NDUV and flow measurement technologies. The Automotive Microbench (AMB II) is employed for the measurement of CO, CO,, and HC exhaust constituents. NDUV technology has been integrated for the measurement of NO and NO<sub>2</sub>, which is a more accurate, precise and responsive analytical technique. Finally, the vortex flow measurement

device has been replaced with a more robust, accurate and wideranging averaging pitot technique. The result is a complete system with greater accuracy and reliability.

#### Features/Benefits

Mustang Dynamometer's MD-VMAS advantages are:

- · Measure emissions while running EPA drive cycles
- Tune vehicles more accurately under steady state conditions
- Ensure after market, bolt-on products do not increase emissions

Visit MustangDyne.com or contact Sales@MustangDyne.com to find out more about Mustang Dynamometer's MD-VMAS.

# **SPECIFICATIONS**

## MD-VMAS

### Emissions Vehicle Mass Analysis System







Temperature Range		-5 to 500° C			
Temperature Accuracy		± 1% of reading or ± 2° C, whichever is greater			
Flow Measurement Accuracy		± 2% of reading or ± 0.5% of full scale, which is greater			
Nominal EFM Tube	100		° C 400° C		)° C
Diameter (in.)	Min Flow (kg/hr)		Max Flow (kg/hr)	Min Flow (kg/hr)	Max Flow (kg/hr)
4	30.7		2080.0	46.3	1550.0

#### **NDIR**

Parameter	CO	CO <sub>2</sub>
Max Range (Full Scale)	8% vol.	18% vol.
Minimum Span to Meet Requirements	0.5%	6%
Resolution	10 ppm	0.01 % vol. CO <sub>2</sub>
		≤ ± 0.3% of full scale, r is larger As low as ± 0.1% vol. CO <sub>2</sub>

#### **NDUV**

Parameter	NO	NO <sub>2</sub>
Max Range (Full Scale)	0 to 3000 ppm	0 to 1000 ppm
Minimum Span to Meet Requirements	300 ppm	300 ppm
Resolution	0.1 ppm	0.1 ppm
Accuracy $< \pm 2\%$ of reading or $\le \pm 0.3\%$ of full scale, whichever is larger		

#### **RANGES**

HC	0 to 2000 ppm Hexane 0 to 4000 ppm Propane
O <sub>2</sub>	0 to 25%

#### RESOLUTION

НС	1 ppm vol.
02	0.01% vol.

#### **CART**

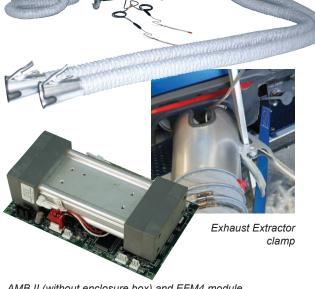
HxWxD	1057 x 1102 x 508 mm
Weight	100 kg

#### **Mustang Dynamometer**

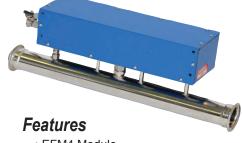
2300 Pinnacle Parkway Twinsburg, OH 44087 Phone: (330) 963-5400 Fax: (330) 425-3310

Email: Sales@MustangDyne.com

MustangDyne.com



AMB II (without enclosure box) and EFM4 module



- EFM4 Module
- NDUV Analyzer
- NDIR Analyzer
- · Sample Assembly
- Filter Assembly
- Power Supply
- · Blower Assembly
- · Tail Pipe Clamps
- Software Integration



© 2020 Mustang Dynamometer