



2300 Pinnacle Parkway, Twinsburg, Ohio 44087
 Ph: 330-963-5400 • Toll Free: 888-468-7826
 Email: sales@mustangdyne.com



TOTAL HYDROCARBONS

Mustang's MAE-FID measures total hydrocarbons using a Flame Ionization Detector. The system is designed to minimize the loss of hydrocarbons prior to analysis by maintaining the required temperature through the use of a heated filter and heated sample line and by using stainless steel fittings, which have low absorption properties.

Warm up time from 20°C to 191°C is minimized, to approximately half an hour. Once the FID reaches temperature, it is lit automatically. Freely adjustable measurement ranges with automatic calibration ensure accuracy for a wide variety of test applications. The MAE-FID is also compatible with the complete MAE ECOSTAR system. It is designed to be stacked onto any other MAE ECOSTAR module, with handles to lock them together, and removable cable channels for cable management. System setup and basic functions are easily performed through the full-color graphical touch screen on the front panel.

The MAE-FID was designed to measure THC, both on-board and in the test cell. The system is comprised of a Flame Ionization Detector, with the following system benefits:

Automatic Flame Ignition: The FID flame will light automatically after 30 minutes of warm-up time.

Automatic Calibration: The system will calibrate itself automatically after flame ignition.

Measuring Range: The MAE-FID has freely adjustable measurement ranges between 0-10 and 0-30,000 ppm C₃H₈.

Sample Handling: Sample probe, heated filter, coalescing filter and Nafion dryer are integrated into the tube electronics. A heated sample line delivers the sample to the FID chamber at 191°C.

Combustion Air: The system contains a catalyst, enabling the use of room air for the FID chamber combustion air.

Graphical Panel Display: Monitor live data, adjust settings on the fly, and easily perform basic functions such as zero and span, directly from the analyzer front panel's full color touch screen.

Power Supply Monitoring: Power can be either 110 VAC or 220 VAC, with both current and voltage monitoring.



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MAE-FID SYSTEM SPECIFICATIONS

Power:	110 VAC or 220 VAC
Storage temperature:	Dry -10 to 60°C ambient
Operating temperature:	0 to 45°C ambient
Dimensions:	43.6 cm x 30.8 cm x 13.6 cm (WxDxH)
Weight:	12 kg
Data transmission:	RS232, Ethernet, USB
Electromagnetic interference and susceptibility	CE Standards: IEC 61326: 2002-2

THC ANALYZER SPECIFICATIONS

Measuring ranges:	Freely adjustable
Smallest measuring range:	0 – 10 ppm
Largest measuring range:	0 – 30,000 ppm
Repeatability:	± 1% of reading
Zero drift:	± 1% in 24 hr
Response time:	T ₉₀ < 1.0 second
Warm-up time:	20°C to 191°C in approx. 30 min.
Analog output current:	0 – 20 mA or 4 – 20 mA
Analog output voltage:	0 – 10 V
Gas Requirements	
Fuel:	He / H ₂
Fuel consumption:	150 ml/min
Span gas:	C ₃ H ₈
Span gas consumption:	500 ml/min
Zero gas:	N ₂ or air
Zero gas consumption:	500 ml/min