

PRODUCT DATASHEET

METHANE ETHANE PORTABLE ANALYZER



Methane Ethane Portable Analyzer (MEPA)

MEPA Specifications:

Measurement Technology	Cavity Enhanced Absorption Spectroscopy
Species / Precision	CH ₄ : < 2 ppb/s C ₂ H ₆ : < 1 ppb/s
Species / LoD (sensitivity)	CH ₄ : < 6 ppb/s C ₂ H ₆ : < 3 ppb/s
Species / Drift	CH ₄ : TBD C ₂ H ₆ : TBD
Species / Measurement Range	CH ₄ : 1 – 100 ppm – Highly linear C ₂ H ₆ : 0.001 – 3 ppm – Highly linear
	CH ₄ : 1ppm - 1% & C ₂ H ₆ 1ppb – 500ppm w/ non-linear correction (no mode switching required)
Data Rate	2 Hz
Sample Flow Rate	Better than 1 Hz, 1/e
Ambient Operating Temperature Range	0-45 °C
Ambient Humidity Range	0-98% RH, non-condensing
Gas Sample Connectors	¼" Swagelok
Data Connections	Serial (RS-232)
Network Access	Built in Wi-Fi card, Ethernet (RJ-45)
Other Interfaces	USB-A, HDMI
Dimensions	22" x 9" x 5.5" (56 cm x 23 cm x 14 cm)
Weight	4kg / 8.8lbs
Power Input	14 – 36 VDC, 2.5 A
Power Consumption	< 30 W
Internal Data Storage	30 Gb
Calibration	Yearly
Consumables	Inlet filters (interval environment specific), Pump (MTBF >10,000 hrs)