

DATASHEET

PORTABLE METHANE/CO₂ ANALYZER



Portable Methane/CO₂ Analyzer (PMCA)

PMCA Specifications:

Measurement Technology	Cavity Enhanced Absorption Spectroscopy
Species / Precision	CH ₄ : < 10ppb (1 σ , 1s) CO ₂ : < 10ppm (1 σ , 1s) H ₂ O: < 200ppm (1 σ , 1s)
Species / Measurement Range	CH ₄ : 0 – 10,000 ppm CO ₂ : 0 – 20,000 ppm H ₂ O: 0 – 30,000ppm
Data Rate	3 Hz
Sample Flow Rate (flow response time)	3 SLPM (~ 3Hz, 1/e)
Ambient Operating Temperature Range	0 - 50 °C
Ambient Humidity Range	0-95% RH, non-condensing
Gas Sample Connectors	QDC (quick disconnect)
Network Access	Built in Wi-Fi card, Ethernet (RJ-45)
Geospatial Location	GPS on-chip
Other Interfaces	2xUSB-3 / HDMI
Dimensions	9" x 6" x 3.5"
Weight	~ 5 lbs
Power Input	16 – 24 VDC, 5 A
Power Consumption	15 W (with battery fully charged)
Battery Powered (Li-Ion)	~ 5 hrs per full battery charge (actual time is ambient temperature dependent)
Internal Data Storage	30 GB eMMC
Calibration	Yearly
Consumables	Inlet filter (change frequency is site specific)
Warranty	1 yr