

DATASHEET

CH₄/CO₂/H₂O ANALYZER

Soil Chamber Gas Analyzer



CH₄/CO₂/H₂O Soil Flux Portable Analyzer

Specifications:

Measurement Technology	Cavity Enhanced Absorption Spectroscopy
Species / Precision	CH ₄ : < 2 ppb (1σ, 1s) / < 1ppb (1σ, 10s) CO ₂ : < 5 ppm (1σ, 1s) / < 2ppm (1σ, 10s) H ₂ O: < 100ppm (1σ, 1s)
Species / Measurement Range	CH ₄ : 1 – 20,000 ppm CO ₂ : 100 – 20,000 ppm H ₂ O: 500 – 20,000ppm
Data Rate	2 Hz
Flow Response Time	Better than 1Hz, 1/e
Ambient Operating Temperature Range	0-45 °C
Ambient Humidity Range	0-95% 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-3 / HDMI
Dimensions	Pelican 1525 Air Case: 22"x14"x7.5"
Weight	~8Kg (18lbs)
Power Input	14 – 28 VDC, 2.5 A (Battery Pack Not Included)
Power Consumption	< 30 W
Internal Data Storage	30 GB
Calibration	Yearly
Sample flow Rate	350 sccm
Communication Platform	WiFi
Warranty	1 yr