

IAP Meter 5000 Series Technical Specifications Sheet

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Function: Portable device for logging CO and PM concentration

Sensors

1. Carbon Monoxide:

Type: Electrochemical cell

Range: 0 – 1000 ppm

Repeatability: 2%

Resolution: 1 ppm

Response time: T90 = 30 seconds

2. Particulate Matter:

Type: Red laser scattering photometer

Range: 0 – 60,000 ug/m3

Resolution 25 ug/m3

Response time: 1 second

Features

- RS-232 Serial Port Output (includes Prolific USB adapter)
- LED indicator Light: Five second blink indicates meter is on
- Microprocessor controlled power management for long battery life
- Selection Switch for 3 Sampling Speeds
 - Fast Mode: One sample every 9 seconds
 - 3 day battery life
 - Medium Mode: One sample every 51 seconds
 - 2 week battery life
 - Slow mode: One sample every 9.7 minutes
 - 1 month battery life

- Data Logger
 - Sampling Method: Delta Sigma (exceptional noise filtration)
 - 38 microvolt resolution
- CO over-sampling for additional noise filtration
- Stores calibration constants in memory
 - Data Storage Disk: Removable Secure Digital 256 MB

Sample Intake: Microprocessor controlled 1.8 cfm fan

Weight: 860 grams

Size: 13 x 20 x 8 cm

Battery: 7.4V Li-Ion, 5700 mAh

Software included

- Microsoft Excel Compatible Data Processing Software
 - Outputs include:
 - Average concentrations
 - Maximum/minimum concentrations
 - Max/min 15 minute average concentrations
 - LiveGraph for graphing real-time output
 - Serial port communication software for Windows, Mac, and Linux

Accessories included

- Backpack and sample tube for exposure monitoring
- Battery Charger
- RS-232 serial port connector cord with Prolific USB adapter

Calibration Requirements

- Particulate Matter sensor is factory calibrated – requires regular cleaning
- Carbon Monoxide sensor comes factory calibrated – requires calibration once per month during use