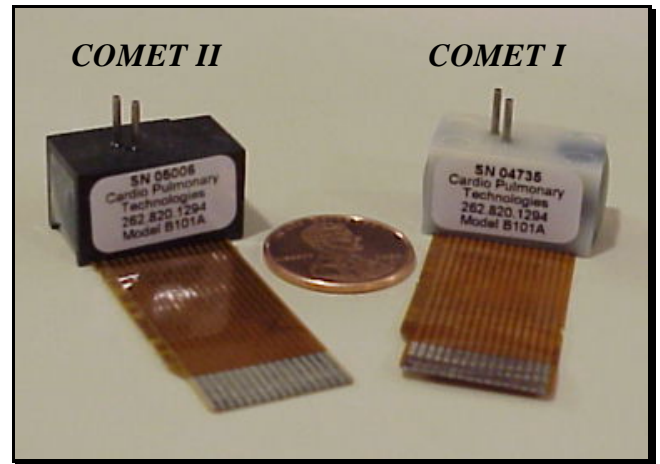


COMET CO2 BENCH SPECIFICATIONS

- ⇒ **Lowest Power Consumption, ideal for battery operation**
- ⇒ **Smallest Physical Size**
- ⇒ **Pressure and Temperature Compensated**
- ⇒ **Pre-Calibrated**
- ⇒ **Field Replaceability**
- ⇒ **High Integration**



Operating Principle:		InfraRed Spectroscopy
Energy Emitting Device:		Proprietary High Efficiency IR Source
Energy Detecting Device:		Frequency Stable Thermopile
CO2 Range:		0% to 13%
Accuracy:	COMET I:	± 3 mmHg @ < 5.0% CO2
	COMET II:	± 2 mmHg @ < 5.0% CO2 < 10% of reading @ > 5.0% CO2
Dimensions:		12mm High x 12mm Wide x 22 mm Long
Weight:		< 7.0 Grams
Operating Temperature Range:		5° C to 55° C
Shipping / Storage Temperature Range:		-40° C to 70° C
Input Voltage:		5.0 Volts (± 5%)
Power Consumption:	COMET I:	135 mWatts
	COMET II:	335 mWatts
Warm-up Time:		2 - 15 seconds
EEPROM:		1K bit memory (Microchip 93C46) Serial Number Manufacture Date Calibration Constants and History
Response Time:	Detector:	28 mSec (typical)
	System:	Dependent Upon Implementation, Pneumatics and Water Separation Technique
Output Voltage Ranges:	Raw CO2 Voltage:	0.00 to 0.65 Volts
	Temperature Voltage:	0.00 to 1.25 Volts
	Pressure Voltage:	0.00 to 2.50 Volts
	IR Source Voltage:	0.00 to 2.50 Volts
Implementation Requirements:		Four Channels A/D Input with 12 bit resolution Bi-Directional Digital Communication Gas Sample Aspiration System Pneumatic Valve for Offset Calibrations

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