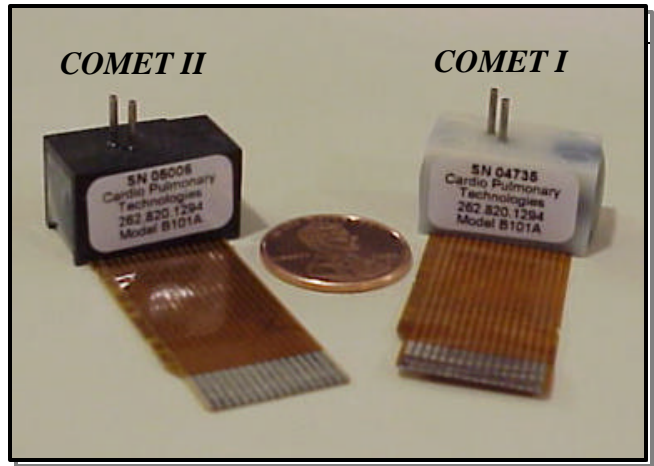


COMET CO2 BENCH

- P Lowest Power Consumption, ideal for battery operation**
- P Smallest Physical Size**
- P Pressure and Temperature Compensated**
- P Pre-Calibrated**
- P Field Replaceability**
- P 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 @ 0 - 38 mmHg
		± 5% of actual @ 39 - 76 mmHg
		± 8% of actual @ 77 - 99 mmHg
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

copyright 2007, all rights reserved

TreyMed, Inc.
P.O. Box 113
Pewaukee, WI, USA 53072