

ETCO2 MODULE SPECIFICATION MATRIX

GoldWEI MODEL C002A, Respironics LoFlo™ Sidestream CO2 Sensor and CPT WFA Sidestream ETCO2 module

Items	GoldWEI MODEL C002A Sidestream ETCO2 module	Respironics LoFlo™ Sidestream CO2 Sensor	CPT WFA Sidestream ETCO2 module
Price	\$450	\$630	\$750
Transducer Type/ Sample Rate	Sidestream CO2 , 100ml/min(default), 50-200ml/min can be configured	Sidestream CO2 , 50ml/min	Sidestream CO2 , 100ml/min(default), 50-200ml/min can be configured
Principle of Operation	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.
Initialization Time	Capnogram displayed in less than 5 seconds, at an ambient temperature of 25°C, full specifications within 2 minutes.	Capnogram displayed in less than 20 seconds, at an ambient temperature of 25°C, full specifications within 2 minutes.	Capnogram displayed in less than 5 seconds, at an ambient temperature of 25°C, full specifications within 2 minutes.
CO2 Measurement Range	0–20%	0–20%	0–13%
CO2 Accuracy	±2mmHg, 0 - 40 mmHg ±5% of reading, 41 - 150 mmHg	±2 mmHg, 0 - 40 mmHg ±5% of reading 41 - 76 mmHg ±10% of reading 77 - 99 mmHg	± 2 mmHg, 0 - 5.0% CO2 < 10% of reading, > 5.0% CO2
Respiration Rate Range	2–150BPM	2–150BPM	3–150 BPM
Temperature and Humidity	Operating: 0 to 55°C, 10 to 90% RH, non-condensing Storage: -40 to 70°C, <90% RH, non-condensing	Operating: 0 to 40°C, 10 to 90% RH, non-condensing Storage: -40 to 70°C, <90% RH, non-condensing	Operating: 0 to 50°C, 10 to 90% RH, non-condensing Storage: -40 to 70°C, <90% RH, non-condensing



Baro pressure auto compensations	Enable	Unviable, need the host to supply baro pressure value	Enable
Auto calibration offset	Enable	Unviable	Enable
IR source	Long life IR source, 100,000hrs	Custom-built IR source, 20000hrs	Common IR source, 20000hrs
IR detector	Thermopile, which can eliminate Interference of temperature fast changing	Custom-built IR detector, which cannot eliminate Interference of temperature fast changing	Thermopile, which can eliminate Interference of temperature fast changing
Voltage Requirements	5.00 VDC ($\pm 5\%$) 480mW (<i>typical with pump on</i>) 1200mW (<i>extreme status</i>)	5.0 VDC $\pm 5\%$ 160 mA (800 mW) typical, 290 mA (1.45 W) max. Ripple not to exceed < 50 mV rms.	5.00 VDC ($\pm 5\%$) 1000mW (<i>typical with pump on</i>)
Communication interface	TTL / RS232 Optional	RS232 Only	TTL Only
Warranty	2 years	1 year	1year
Custom Requirements	Supply custom-built module @ more than 500 modules per order	Unviable	Unviable