

TREYMED, INC.

OEM Compact CO2 Waveform Analyzer

APPENDIX I - OEM CO2 Sidestream Module Configuration Checklist

Parameter	Select One From Each Category	Comments
Comm. Baudrate	<input type="checkbox"/> 9,600 baud <input type="checkbox"/> 19,200 baud <input type="checkbox"/> 38,400 baud	<i>default, recommended</i>
Comm. Parity	<input type="checkbox"/> None <input type="checkbox"/> Odd <input type="checkbox"/> Even	<i>default, recommended</i>
Auto. Waveform Datarate ¹	<input type="checkbox"/> 0Hz <input type="checkbox"/> 50Hz <input type="checkbox"/> 100Hz <input type="checkbox"/> other _____	<i>default at 9600 baud</i> <i>default at 19200/38400 baud</i> <i>0-100Hz</i>
Waveform Packet Configuration ¹	<input type="checkbox"/> CO2 and Baro <input type="checkbox"/> CO2 only	<i>default</i>
Breath Parameters ^{1,2}	<input type="checkbox"/> OFF <input type="checkbox"/> ON, THREE <input type="checkbox"/> ON, ALL	<i>default</i> <i>RR, etCO2, insCO2</i> <i>RR, etCO2, insCO2, Ti, Te</i>
Floating Point Format ³	<input type="checkbox"/> Motorola Fast FP <input type="checkbox"/> IEEE FP	<i>default, recommended</i>
Gas Sample Flowrate ^{1,4}	<input type="checkbox"/> 50cc/min <input type="checkbox"/> 75cc/min <input type="checkbox"/> 100cc/min <input type="checkbox"/> 150cc/min <input type="checkbox"/> 200cc/min <input type="checkbox"/> other _____	<i>default</i> <i>0, 50-250cc/min</i>
Breath Averaging (RR)	<input type="checkbox"/> 1 breath <input type="checkbox"/> 2 breaths <input type="checkbox"/> 4 breaths <input type="checkbox"/> other _____	 <i>default</i> <i>1-8 breaths</i>
Automatic Calibration Configuration	<input type="checkbox"/> All Enabled <input type="checkbox"/> Disable calibrations performed at 1, 2, 5, 10, and 15 minutes after powerup <input type="checkbox"/> Disable calibrations performed after every 30 minutes of operation <input type="checkbox"/> Disable calibrations based on Temperature Drift <input type="checkbox"/> Disable calibrations based on Temperature Slew Rate <input type="checkbox"/> Disable calibrations based on major Atmospheric Pressure change <input type="checkbox"/> Disable calibrations based on Infrared Detector voltage too high	<i>default, recommended</i>
Maximum Reported CO2 Concentration	<input type="checkbox"/> 100 mmHg <input type="checkbox"/> 180 mmHg <input type="checkbox"/> other _____	<i>default</i>
Baseline Bashing (insCO2)	<input type="checkbox"/> 0 mmHg <input type="checkbox"/> 1 mmHg <input type="checkbox"/> 2 mmHg <input type="checkbox"/> other _____	 <i>default</i> <i>1-5 mmHg</i>
Watertrap Detection System ⁵	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled	<i>default</i>

¹ Can be changed on-the-fly using the appropriate serial communication command. Set to 0Hz in order to operate in waveform polling mode.

² OFF=will not send RR, etCO2, insCO2, Ti, and Te at end of each breath. ON= will send RR, etCO2, insCO2, Ti, and Te at end of each breath.

³ Motorola format has typically shorter computation time. IEEE format is available for systems where host compiler only supports this format. The PC software provided by TreyMed requires Motorola format.

⁴ 100cc/min is recommended for applications where adult, pediatric or neonate patients may be monitored. 150-200cc/min is recommended where faster waveform response time is desired.

⁵ Connector J3 can be used to power and monitor circuitry to detect whether a watertrap or patient sample line is attached to the monitor. Evaluation kits do not have watertrap detection circuits, but this feature can be utilized in the final product configuration.