CO2 & Oxygen Monitor Operating Instructions

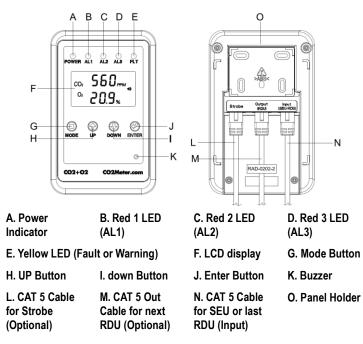
Madal DAD 0200 2

Model: RAD-0200-2		Symbol	Meaning	Description		14/	V			
Table of Contents 1. Overview 2. Package Contents and Description		[™] 570 _{₽₽М} , ⁰ 2 1.0%	CO2 and O2 Concentration	Ambient CO2 concentration in ppm (parts per million) and O2 concentration in % volume						
 Strobes (Optional) LCD Display Symbols SEU (Main Sensor Unit) RDU (Remote Display Unit) Installation Advanced Management Settings Customizing the Settings Caring for the Monitor Specifications Weight & Dimensions Safety Notice Fault Codes & Troubleshooting Guide Support and Warranty 			4 »	Alarm	Alarm icon		∞ 560~ ° 20.9∗			
			DIAG	Diagnostics	Test communications between the SEU and RDU	С — О Рони Н — Ф І — моо L — О	─ └───┼╫┼╘			
			AL1 O2	Oxygen Alarm 1	Displayed when setting oxygen alarm 1. If O2 concentration falls below AL1, the AL1 (Red 1 LED) and Fault LED will flash, the buzzer will sound, relay 1 will be triggered, and strobes (if attached) will flash. Alarm will not shut off unless reset or powered off. (Latched See 8.1)	002+02	t CO2Meter.com			
1. Overview Thank you for purchasing	the RAD-0200-2 CO2 and (Dxygen Monitor and Alarm.			Displayed when setting oxygen alarm 2. If O2 level falls below AL2, the AL1 (Red 1 LED),	A. CO2 Sensor	B. LCD display	C. Power Indictor F. Red 3 LED	G. Yellow LED	ł
concentrations of oxygen	on dioxide and oxygen leve and/or high concentrations on ms ranging from headaches	of CO2 are dangerous, and	AL2 02	Oxygen Alarm 2	AL2 (Red 2 LED) and Fault LED will flash, the buzzer will sound, relay 1 and relay 2 will be triggered, and strobes (if attached) will flash.	D. Red 1 LED (AL1) H. Mode Button	E. Red 2 LED (AL2) I. UP Button	AL3)	(Fault indication)	1
and death. The RAD-0200	-2 CO2 & Oxygen Monitor's	alarm will activate when the			Alarm will not shut off unless reset or powered	L. Buzzer	M. Reset Button	N. 4-20mAh Output	O. Battery Bkup	-
exceeds the pre-set level.	ower than the pre-set level This will also activate a relay	that can turn on a fresh air			off. (Latched See 8.1)	P. DC Power	Q. Cable to RDU	R. Relay for AL3	S. Relay for AL2	i
Features	sponders that a problem exis		AL3 O2	Oxygen Alarm 3	Displayed when setting oxygen alarm 3. If O2 level falls below AL3, all 3 AL (Red LEDs) and the Fault LED will flash, the buzzer will sound,	T. Relay for AL1	U. CAT5 Cable to Strobe (optional)	V. Panel Holder	W. O2 Sensor	
3 CO2 and 3 OxygSensor Unit can co	lisplay indicates CO2 and oxy en Alarms meet OSHA codes ntrol up to 3 Remote Display automatically control fans to v	Units			all 3 relays will be triggered, and strobes (if attached) will flash. Alarm will not shut off unless reset or powered off. (Latched See 8.1)	The SEU (Sensor Unit) contains both an electro-chemical oxygen sensor and an NDIR carbon dioxide sensor. CO2 and O2 levels are monitored in ambient air through ports A and W on the SEU and reported in real time on the LCD display.				F
 Audible and visual Automatic altitude of the second se	alarms compensation (can be turned			CO2 Alarm 1	Displayed when setting CO2 alarm 1. If CO2 level stays above 5,000ppm TWA (time	All connections are made to the SEU including power, alarm relays, 4-20mA output, battery backup, connection to the RDU, and optional strobes.				i
	offsite monitoring / burying all cables in the wal rades with strobe package at		AL1 CO2 (5,000 ppm OSHA TWA)		weighted average) relay 1 will be triggered, AL1 (Red 1 LED) will flash but the buzzer will not sound. If CO2 returns to normal and not	All functions and custom alarm settings are made on the SEU. The "DIAG" function tests communication between the SEU and RDU. If setup is done incorrectly, the "RCFS" function can be used to return the monitor to the original factory settings.				
2. Package Contents	and Description				latch alarm will shut off.	The Power (Green LED) will light continuously when the power is supplied. If the device is powered by a battery, the Power (Green LED) will flash and the battery				
The RAD-0200-2 package parts are available when the the second se	comprises the following parts ne box is opened.	s. Please check that all			Displayed when setting CO2 alarm 2. If CO2 level goes above AL2 level, relay 1 and relay 2 will be triggered, AL1 (Red 1 LED) and AL2	If the communication cable between the SEU & RDU is not securely connected,				
Sensor Main Unit (SEU)	Remote Display Unit (RDU)	Mounting Brackets (2 pcs.)	AL2 CO2	CO2 Alarm 2	(Red 2 LED) will flash, the buzzer will sound and strobes will flash (if attached). If CO2	wrong port on the RDU, after about one minute the "Er7" will flash on the RDU LCD. Plug the cables into the correct ports on RDU and the unit will work normally				
CAT 5 Communication Cable (1 pc.)	Relay Cables (3 pcs.)	Wall Plug Safety Strap			returns to normal and not latched (see sec. 8.1) alarm will shut off.	ec. CO2 Alarm				
Power Supply (Pre-Wired)	Power Supply International Power Screws (13 pcs.)				Displayed when setting CO2 alarm 3. If CO2 level goes above AL3 level, relays 1, 2 and 3 will all be triggered, all 3 AL (Red LEDs) and	If the SEU detects a 5,000ppm CO2 TWA (time-weighted average over 8 level, the AL1 (Red 1 LED) and strobes will flash, the buzzer will sound, ar 1 will be triggered. When the CO2 TWA value drops below 5000ppm (v hysteresis) the relay will reset and the monitor will return to normal			vill sound, and relay 5000ppm (with 5%	2
Wall Anchors (12 pcs.) Cable Clips (10 pcs.) User Manual (1 pc.) Warning Signs (6 pcs.)			AL3 CO2	CO2 Alarm 3	the Fault LED will flash, the buzzer will sound and strobes will flash if attached). Alarm will	If the CO2 level ex	ceeds the AL2 CO2 I	evels, Red AL1 and A	AL2 LEDs will flash,	3
3. Strobes (Optional)					not shut off unless reset or powered off. (Latched See 8.1)	Latched See 8.1) triggered. If the CO2 level exceeds the AL3 CO2 levels, a the FLT LED will flash, the buzzer will sound, the strobes w			ed Alarm LEDs and	2
The strobes are optional visible alarms that augment the flashing red Alarm LEDs on the SEU and RDU. They are activated when the oxygen or carbon dioxide alarms are activated.			CALI	Calibration Mode	To calibrate the O2 and CO2 sensor when the accuracy drift	will be triggered. If the CO2 level drops to normal, the flashing and buzzer will stop, but the Fa LED will remain flashing (if Latch is set on see 8.1). Once CO2 levels are norm the alarms can be reset by pressing the reset button or by unplugging the unit.			2 levels are normal,	ţ
Each Strobe comes with a	CAT 5 cable that plugs into t	he SEU or RDU.	ReFS	Recover Factory	To recover factory default settings and cancel	Oxygen Alarm	cocr by pressing the r	eset button of by unph	agging the unit.	7
			HI	Settings High	any customized settings. O2 level above 25% or CO2 level above 5%.	When the SEU detects oxygen levels below the AL1 O2 value, the AL1 (R LED), FLT LED and strobes will flash, the buzzer will sound, and relay 1 wit triggered. Once O2 levels are normal, the alarms can be reset by pressing			and relay 1 will be	8
						reset button or by u		bolow the ALO at AL	2 the clarm cotions	ç
			5	Fan Icon	Displays when alarm is on	When the SEU detects an oxygen levels below the AL2 or AL3, the alarm will be repeated. Once O2 levels are normal, the alarms can be reset by provide the reset button or by unplugging the unit. (if Latched See 8.1)				1
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4. LCD Display Symbols

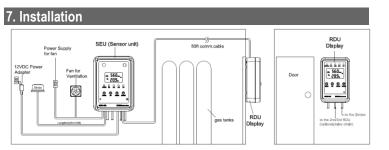
5. SEU (Main Sensor Unit)

6. RDU (Remote Display Unit)



The RDU displays the data from the SEU and provides visual and audible indication that the SEU is in alarm status. The RDU is NOT an external/second sensor. The RDU is connected to the SEU with a CAT 5 cable. A 25-foot CAT 5 cable is provided. Users can source additional cable lengths as needed. The RDU should be placed where it can be conveniently observed (eye level) before entering the room/space.

The "DIAG" function can be used to test the communication between the SEU and RDU. Resetting the monitor is only available from SEU.



1. Choose a suitable location to install the SEU 18 inches (0.5m) from the floor where the gas is stored. Fix the panel holder on the wall with four screws provided.

2. The SEU has been pre-wired for 3 alarm relays, 4-20mA output and 6V DC batter backup. Remove any wires you do not plan to use, then attach the SEU to the panel holder.

3. Fix the second panel holder in a suitable location outside the monitored space at eye level, typically next to a door. Attach the RDU to panel holder.

4. Route the included 25 ft. CAT 5 cable between the SEU and RDU using the nail cable clips to secure the cable to the wall. Up to 3 daisy chained RDUs and up to 300 ft. total length of CAT 5 cable may be used.

5. Connect the RDU to the SEU paying careful attention to the CAT 5 labels on each unit.

6. If you have purchased add-on strobes, connect them to the RDU and SEU.

7. Connect the power. The SEU and RDU will begin to operate.

8. Use the "DIAG" function (Sec. 10.3) on the SEU or RDU to verify communication between the units. The five LED's will blink and the buzzer will sound on both the SEU & RDU. The display should read the same on both units.

9. Complete the installation by attaching the power plug lock and putting the safety signs up around the RDU. They must be visible whether the door is open or closed.

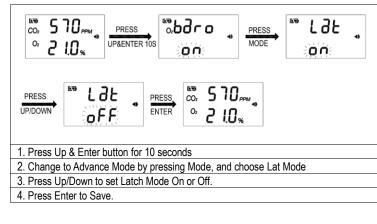
10. Attaching relays 1-3 to fresh air fans or HVAC control systems. See our video for detailed instructions on connecting to the relays.

8. Advanced Management Settings

These settings use a non-obvious key combination to prevent casual users from changing alarm settings. In most cases, the default settings are recommended. To access the Advanced Management Settings press the Up + Enter key combination for 10 seconds.

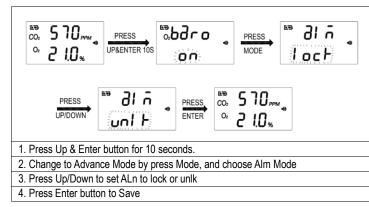
8.1) Latch function: On or off, default is on.

When Latch is on, the Yellow Fault light will continue to flash after an alarm has activated indicating that at some time in the past the monitor entered alarm status. Unplug the unit to reset the Fault light.



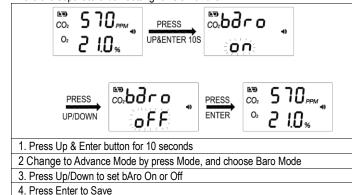
8.2) Alarm level lock: Lock / unlock. Default is Lock.

If the alarm level is locked, none of the alarms can be changed without first turning the Alarm level lock off.



8.3) Barometric Compensation: On / Off. Default is on.

When on, the monitor automatically compensates for barometric pressure / altitude. There are separate on/off setting for CO2 and O2.



9. Customizing the Settings

When power is first turned on, all LEDs will flash and the buzzer will sound 4 times as part of the internal self-check diagnostics. After self-check diagnostics are complete, the following settings can be changed on the SEU.

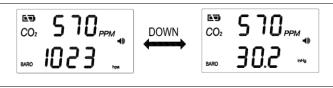
NOTE: If there is 6V DC on the Battery backup (See O. on the SEU diagram) all custom settings will be saved in the event of power loss. Otherwise, each time the power is turned off, the monitor will return to factory default settings.

9.1 Select Temperature Units:



1. Press "Up" button to switch between °C and °F.

9.2 Select Barometric Units:



1. Press "Down" to switch between hPa and inHa

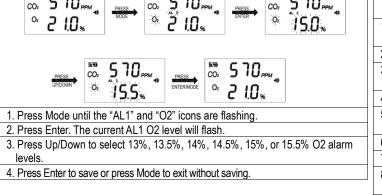
9.3 DIAG function: Manually perform self-check diagnostics. Big S TO PRESS, S TO PRESS, CO2, S TO PRESS, CO2,</ 1. Press Mode until the "DIAG" icon flashes. 2. Press Enter. 3. The five LED's will blink and the buzzer will sound on the SEU and RDU simultaneously. 9.4 Verify AL1 CO2: 5.000ppm OSHA TWA (not user configurable). Image: Signal state 1. Press Mode until the "AL1" and "CO2" icons are flashing. 2. 2. Press Enter. Verify the current AL1 CO2 level is fixed at 5,000ppm. 3. 4. Press Enter again to save or press Mode to exit without saving. **9.5 Setting CO2 AI 2 Level:** (first Unlock the Alarm Level – See 8.2)

4. Press Enter to save or press Mode to exit without saving.

9.6 Setting CO2 AL3 Level: (first Unlock the Alarm Level – See 8.2)



I. Press Mode until the "AL3" and "CO2" icons are flashing. 2. Press Enter. The current AL3 CO2 level will flash. 3. Press Up/Down to select 2%, 2.5%, 3%, 3.5%, or 4% alarm level. 4. Press Enter to save or press Mode to exit without saving. Idot: CO2 AL3 must be HIGHER than CO2 AL2 to work properly. Idot: CO2 AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Co2 AL2 Level: (first Unlock the Alarm Level – See 8.2) Image: Chap: Chap: Chap: Chap: Chap: Chap: Chap: Chap: Chap: Chap	1. Press Mode until the "AL3" and "CO2" icons are flashing. 2. Press Enter. The current AL3 CO2 level will flash. 3. Press Up/Down to select 2%, 2.5%, 3%, 3.5%, or 4% alarm level. 4. Press Enter to save or press Mode to exit without saving. Note: CO2 AL3 must be HIGHER than CO2 AL2 to work properly. OPEND OF AL1 Level: (first Unlock the Alarm Level – See 8.2) Image: Strain of S TO Press OF All Devel OF All Devel of S TO Press OF All Devel OF All Devel of S TO Press OF All Devel OF All Devel OF All Devel S TO Press OF All Devel S TO Press OF All Devel OF All	PRESS UP/DOWN		
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4. Press Enter to save or press Mode to exit without saving.	 4. Press Enter to save or press Mode to exit without saving. 9.9 Setting O2 AL3 Level: (first Unlock the Alarm Level – See 8.2) 			
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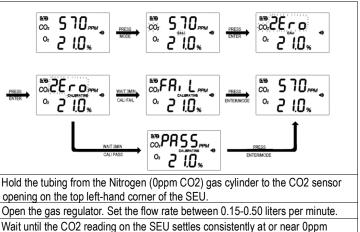


9.10 Calibration:

Zero and Span Calibration should both be performed at least annually. They can be performed onsite or the SEU can be returned for factory calibration. Check your state or local code for calibration schedule requirements in your jurisdiction.

What you will need: a test gas cylinder of pure nitrogen (0ppm CO2 and 0% O2), a cylinder of 21% oxygen, a regulator, and tubing. If you are calibrating on site, first inform occupants to ignore the alarms while calibration takes place.

art 1: CO2 ZERO Calibration:



CO2 on the screen. All alarms will be triggered.

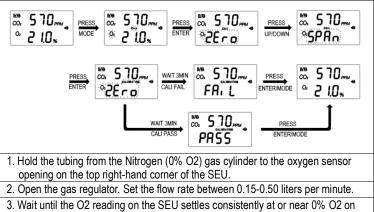
Press the Mode button until you see the "CO2" and "CALI" icons flash. Press Enter to view the calibration settings. The words "CO2" and "ZEro" will begin flashing on the LCD.

Press Enter again to begin calibrating. "CALIBRATING" will begin flashing. After approximately 3 minutes, the LCD will display either "PASS" or "FAIL." If the LCD reads "FAIL", repeat the steps again. If it displays "PASS", press Enter. The display should now show 0ppm

Remove the nitrogen gas.

Press the Reset button at the bottom right-hand side of the SEU front cover.

art 2: Oxygen ZERO Calibration:



the screen. All alarms will be triggered.

4. Press the Mode button until the "O2" and "CALI" icons flash.

5. Press Enter to view the calibration settings. The words "O2" and "ZEro" will begin flashing on the LCD.

6. Press Enter again to begin calibrating. "CALIBRATING" will begin flashing. 7. After approximately 3 minutes, the LCD will display either "PASS" or "FAIL" 8. If the LCD reads "FAIL", repeat the steps again. If it displays "PASS", press Enter. The display should now show 0%

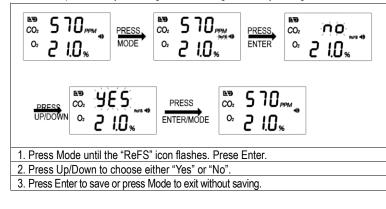
9. Remove the nitrogen gas.

10. Press the Reset button at the bottom right-hand side of the SEU front cover.

1	I. Hold the tubing from the 21% oxygen gas cylinder to the oxygen sensor opening on the top right-hand corner of the SEU.
2	2. Open the gas regulator. Set the flow rate between 0.15-0.50 liters per minute.
	 Wait until the O2 reading on the SEU settles consistently at or near 21% O2 on the screen.
2	Press the Mode button until the "O2" and "CALI" icons flash.
Ę	b. Press Enter to view the calibration settings. The words "O2" and "ZEro" will begin flashing on the LCD.
6	6. Press the Up or Down arrow key to change from "Zero" to "SPAn".
7	7. Press Enter again to begin calibrating. "CALIBRATING" will begin flashing.
8	3. After approximately 3 minutes, the LCD will display either "PASS" or "FAIL"
ç	9. If the LCD reads "FAIL", repeat the steps again. If it displays "PASS", press Enter. The display should now show 21% O2.
1	0. Remove the oxygen gas cylinder.
1	1. Press the Reset button at the bottom right-hand side of the SEU front cover.

procedure again before calling support.

9.11 Using ReFS - Recover Factory Settings: Fixes incorrect alarm settings or calibration problems by returning monitor to original factory settings.



10. Caring for the Monitor

To make sure to receive the maximum benefit from using this monitor, please observe the follow guidelines.

- 1. Repair Do not attempt to repair the monitor or modify the circuitry by yourself. Please contact your dealer or a qualified repairman if the monitor needs servicing.
- 2. Cleaning Disconnect the power before cleaning. Use a damp cloth. Do not use liquid cleaning agents such as benzene or paint thinners as these will damage the device.
- 3. Maintenance We recommend using the DIAG function to test communication between the SEU and RDU and to verify they are working properly. If the five LEDs blink and the buzzers sound simultaneously, it indicates that SEU and RDU are working normally.

11. Specifications							
Sensor Specifications:							
CO2 Sensor Specifications							
Measurement Range	0 - 50,000ppm (5%) display						
Display Resolution	10ppm at 0~10,000ppm; 100ppm at 10,001~50,000ppm						
Accuracy	+/- 200ppm or +/- 10% of the reading						
Pressure Dependence	Automatic pressure compensation via built in barometric sensor (50 to 110 kPa)						
Response Time	< 2 minutes for 90% response						
CO2 AL1	5000ppm fixed OSHA TWA						
CO2 AL2	5000, 1%, 1.5%, 2%, 2.5%, 3% Default AL2 is 1.5%.						
CO2 AL3	2%, 2.5%, 3%, 3.5%, 4%. Default is 3.0%						
Sound Alarm	80db@10cm						
Warm-Up Time	< 60 seconds at 72°F (22°C)						

Oxygen Sensor Specifications

Measurement Range	0 - 25% display				
Display Resolution	0.1%				
Accuracy	Better than 2%FS				
Pressure Dependence	Automatic pressure compensation via built in barometric sensor (500-1200 mbar)				
Response Time	< 2 minutes for 90% response				
O2 AL1	18%, 18.5%, 19%, 19.5%, 20%. Default AL1 is 19%.				
O2 AL2	16%, 16.5%, 17%, 17.5%. Default AL2 is 17%				
O2 AL3	13%, 13.5%, 14%, 14.5%, 15%, 15.5%. Default is 15%.				
Sound Alarm	80db@10cm				
Warm-Up Time	< 60 seconds at 72°F (22°C)				

Temperature Sensor Specifications					
Temperature Range	32°F to 122°F (0°C to 50°C)				
Display Resolution	0.1°F (0.1°C)				
Display Options	°C/°F				
Accuracy	±2.7°F (±1.5°C) when O2 concentration is below first alarm level				
Response Time	20-30 minutes (case must equalize with environment)				

Operating Conditions:

32°F to 122°F (0°C to 50°C)
0 ~ 95% RH non-condensing
-4°F to 140°F (-20°C to 60 °C)

Power Supply

Power	DC	9~32VDC (12~32VDC recommended), 2A.				
Supply	AC adapter	Input: 100~240 VAC,50/60Hz, 0.6A Output: 12VDC, 2000mA.				
Battery	Voltage	6VDC (5.4V~7.0V), recommended capacity is 12AH				

Relay Outputs

	Relay 1	AL1 for CO2 and O2				
	Relay 2	AL2 for CO2 and O2				
	Relay 3	AL3 for CO2 and O2				
The Peak current for all relay are less than 2A@30 VDC or 250 VAC, SPDT.						

■ 4-20mA Ou

■ 4-20mA C	Dutpu	ts					ty Notice	, , , , , , , , , , , , , , , , , , ,		
CL01:4-20mA CO2:0~50,000ppm				Your safety is very important to us. To ensure to use the product correctly and safety, please read these warnings and the entire User Manual before using the						
CL02:4-20mA O2: 0~25%				product. Otherwise, the protection provided by the equipment may be impaired. These warnings provide important safety information and should be observed at all						
13 Weigh	ht & [Dimensions			time	S.				
	Wei		16.9 oz. (478	3 g)	1. D	o not s	ubject the mon	itor to impact o	or shock.	
SEU	Dim	ensions (LxWxD)	6.69 x 4.96 x 2	2.73 inches	2. D	o not p	lace the monito	or or the adapt	or near a heat	source
RDU	Wei	ght ensions (LxWxD)	6.9 oz. (197 g 5.51 x 3.54 x 1				open the monito umstances as t			c circuitry under
	Din		0.01 X 0.01 X 1		4. U	se only		ower adaptor.	Improper pow	ver adaptors or power
							ire that the pow			by a plug lock so that it
	126.00m [4.96incl									ing. Careful and protective re the SEU is installed.
					lf	there i		ply to the fan,	the relay will	l devices like a ventilation fan. not work. This may result in nfined space.
	<u>° 20.9</u>	0.05		Outre Broke	15	Faul	t Codes &Tr	aublachaa	ting Guido	
POWER		ALS R.T								s for problems you may
	UP D	OWN ENTER			enco	bunter v	vith the RAD-02	00-2 O2 Monito	or.	
002+02		CO2Mater.com			No	Fault Icon	Description (of the fault)	SEU Indication	RDU Indication	Suggested Actions
2.73inch			1	Er3	The ambient temperature has exceeded the temperature range 0°C to 50°C (32°F to 122°F)	"Er3" flashes, Yellow Fault LED blinks	"Er3" flashes, Yellow Fault LED blinks	This error will disappear when the temperature returns to the normal operating range between 32°F to 122° (0°C and 50°C)		
		SEU (S	Sensor Unit)		2	Er5	EEPROM System Problem	"Er5" flashes, Yellow Fault LED blinks	"Er5" flash, Fault LED blink	Power on again or press reset button. If "Er5" continues, contact local dealer.
	0.00mr 3.54inc				3	Er7	Internal Data Transmission Error	"Er7" flashes, Yellow Fault LED blinks	"Er7" flashes, Yellow Fault LED Blinks	Check the CAT 5 plug is connected into the INPUT port of RDU, if the "Er7" displays on the RDU only. Press reset button on SEU or power on again
POWER ALL ALZ ALZ PLT CO. 5550 revi CO. 2009% NODE UP DOWN ENTER CO22+O2 CO2Meters.com (1.89inch]			Cor If th mor	e troul e inforr	nation, please Support@C (386) 256-49 www.CO2M	o help! de above doe contact us usin O2Meter.co 910 (M-F 9: eter.com	ng the informa m 00am–5:00			
				See CO2Meter, Inc. Terms & Conditions at, <u>www.CO2Meter.com/pages/terms-conditions</u>					5	
						CO2	2Meter, Inc			
					(•	Center Driv	/e
	RDU (Remote Display Unit								n, FL 32174	-

DC 01 250 VAC, 3





Ormond Beach, FL 32174 Phone: 386-872-7665 | Fax: 866-422-2356 Email: Sales@CO2Meter.com

