E2 setup with the high pressure CO2 controller for 527-0396

This document will guide you through setting up and commissioning the high pressure CO2 controller (*P/N 818-9010*) in the E2 controller.

Step 1: Wiring and setting the address of the high pressure CO2

- 1. When wiring the RS485 polarity from E2 to the High Pressure CO2 controller:
 - Verify that the (+) RS485 side of the High Pressure CO2 line is connected to the (-) side of E2 RS485.
 - The (-) RS485 side of the High Pressure CO2 line must be connected to the (+) side of the E2 RS485.
- 2. To set the address on the High Pressure CO2, press the **T1**, **T3**, and **T8** buttons on the Main Menu screen to enter the *Configuration* screen on the Visograph.





3. After entering the Configuration screen, the screen below appears.



Figure 2 - configuration screen

4. Highlight General Config and press T4 (ENTER).

	General	Config	
Sensor_Type	Dixell	Pres_LValue P_Lval Bar	
Temp_Unit	с	Pres_HValue P_HvalBar	
Pres Unit	Bar	Res Factory Set NO	
RL DELAY	RIDIMin	- /-	
EXIT		UPD.† 🛁 🕨	
T1 T2	T3 T4	T5 T6 T7 T8	3

Figure 3 -general configuration screen

5. After pressing T4 (ENTER) the screen below appears. Press T8 (right arrow) to move to the next screen.

General Config
Date Jan. 01 year MON
Time 00:00:00
Mod_Bus Addr addr
Baud_Rate 9600
EXIT SET UPD.1
T1 T2 T3 T4 T5 T6 T7 T8

Figure 4 -general config screen

6. Verify if the address is defaulted at 1. If you need to change the default address, press T5 (down arrow) and highlight the MODBUS address number. Once the address number is highlighted, press T4 (SET), and the number should blink. Press T3 to increase the address number or T4 to decrease the address number. After the address number is selected, press T4 (SET) to exit, then press T1 (EXIT) twice to exit the Configuration mode. If the address is changed, the High Pressure CO2 needs a manual reboot for the new address to take place.

Step 2: Uploading the description file to the E2 controller

- 1. From UltraSite, connect to your E2 controller (description file # 527-0396).
- 2. Right-click on the E2 icon and select **Description File Upload**.
- 3. Browse to the location of the description file and click **Upload**.
- 4. Once the upload is complete, reboot the E2 controller.

5270195 dsc	
CO2ipro.dsc soaprw.dsc	
XC643CX.dsc	
,	
FILE - Click Browse to select the file to upload	Browse

Figure 5 - E2 Description File Upload

Step 3: Adding the device to the E2 controller

- 1. Press (Many), 🐐 (System Configuration), 🐐 (Network Setup), 💈 (Connected I/O Boards & Controllers).
- 2. Press **F2** (*NEXT TAB*) to shift over to the *C4: Third Party* tab. The name of the device will display in the list. Highlight the device name, then enter the number of devices and press **1** to save changes.

Use Ctrl-X to S	₪ Gelect CX Tabs	64	SETUP				FI
C1: This Unit	C2: IO Network	C3: ECT	C4: Third H	Partų	C5:	Echelo	on
C6:	C7:				C0:		
	num ne	LWUFR GUFIS: N	ecsecup				
	Third Party Boa	rd Type	Quantity	Max			
	#1 : IPR	0 CO2 5 Febeles	1	1			
	#z : upe	I ECHEION	6				
Enter 8 to 1	Enter desired n	umber of these	hoards				
E1- PREIL TA	B E2: NEX		F3: EDIT				
11. 11.20 14				∧			

Figure 6 - adding the High Pressure CO2

Step 4: Assigning the MODBUS port

- 1. Press (Menu), 7 (System Configuration), 4 (Remote Communications), 3 (TCP/IP Setup).
- 2. Press **F1** (*NEXT TAB*) to shift over to the C3: *Serial* tab.

C1:	General	C2: E	ng Units	C3: Serial	C4: TCP/IP	C5:	Peer	Netwr
C6:	Web Server	C7: S	ystem	C8:	C9:	C0:		
			General	L Setup: GENERAL	SERV			
	Serial		1121110					
	COM1 Connec	tion:	Not Used					
	COM2 Connec	tion:	MODBUS-1					
	COM2 Baud	:	9600 baud					
	COM2 Data S	ize :	8					
	COM2 Paritu	:	None					
	COM2 Stop B	its :	2					
	COM3 Connec	tion:	Modem					
	COM3 Baud		115.2 Kba	bu				
	COM3 Modem	Port:	No Modem					
	COM3 Modem	Туре:	CPC 33.6K	Internal				
	COM3 Modem	Init:	ATEOU1SO=	1S10=40&D2&Q5\N0%	C 0&K 0&Y 0&W 0;			
	COM3 Fax In	it :	ATV1E0S0=*	1S10=40&D2&Q5\N0%	C 0&K 0&Y 0&W 0;			
	COM3 DTMF D	ur :	100					
	COM3 Pause	Dur :	2					
Scr	oll using Ne	xt/Pre	ev keys	Connection Type	for COM1			
F1	: PREV TAB	F2:	NEXT TAB	F3: EDIT	F4: LOOK UP	F5	: CA	NCEL
	- THEV THB	- 2-			14. LOOK OF	<u> </u>	. сн	NULL

Figure 7 - assigning a MODBUS port to the device

3. Select the COM port the device is connected to, press **F4** (*LOOK UP*) and select the appropriate MODBUS selection.

94-39-12 🛡 😗 📖	<u>- +</u>	PRX-400 Unit 1 Option Lookup	FULL	9:52:18
C1: General C2	2: Eng Units	C3: Serial	C4: TCP/IP	C5: Peer Netwr
Serial COM1 Connecti COM2 Connecti COM2 Data Siz COM2 Parity COM2 Stop Bit COM3 Connecti COM3 Baud COM3 Modem Po COM3 Modem Ty COM3 Modem Ty COM3 Fax Init COM3 Fax Init COM3 Fax Init	o Opt e Descript s Not Used IONet o ISD1.0 r HODBUS-1 i MODBUS-2 MODBUS-3 CHTL	ion List Selecti Select: ion	on Select 13 16 19 22 23 24 33	
Use Up-Down Arrow	keys or func	tion keys to sele	EA- END	S BACK.

Figure 8 - MODBUS Port Selection

4. Set the baud rate for the chosen port. Press **F4** to look up the appropriate speed.

04-30-12 🔅 🥳		E+) RX-400 U Option L	nit 1 🕅 DOKUP	FULL	9:53:06 *ALARM*
C1: General C6: Web Serv	C2: E er C7: S	ng Units <mark>C3: Seria</mark> ystem C8:	1 C4: TCP C9:	/IP C5: Pe C0:	er Netwr
Serial COM1 Cor COM2 Cor COM2 Dat COM2 Dat COM2 Par COM2 Par COM3 Cor COM3 Boo COM3 Moo COM3 Moo COM3 Moo COM3 Moo COM3 Moo COM3 Moo COM3 Ta COM3 DTT COM3 Par	nnectio nnectio ud ta Size rity op Bits nnectio ud dem Typ dem Typ dem Typ dem Ini x Init x Init wF Dur use Dur	Option List S Select Description 4800 baud 9600 baud 19.2 Kbaud 38.4 Kbaud	election : Selec 2 3 4	È	
Use Up-Down F1: SELECT	Arrow key	s or function keys	to select entry NNING / F4:	Press BACK.	CANCEL

Figure 9 - Baud Rate Selection

Step 5: Commissioning the device into the E2 controller

- 1. Press Merry, 🕴 (System Configuration), 🍍 (Network Setup), 🚪 (Network Summary).
- 2. On the *Network Summary* screen, highlight the device name, press **F4** (*COMMISSION*). Select the preferred MODBUS port where you will assign the device, then assign the MODBUS address of the device.

06-20-11 🍬 🤗		RX-300 Unit 1 Network Summary	Â		14:23:4
Name E2 Unit01 EUSE001	Type RX300-Refri EVSE	Notwork Add Select Network 1. MODBUS-1 2. MODBUS-2		Rev 3.01B16 0.00	Status This Controller Offline
Press menu n	umber or scroll	to selection			F5: CANCEL

Figure 10 - MODBUS device address selection

08-27-12 🔹 🦪 🎹		CX-400 Unit 1 Network Summary	لگ FUI
Name	Тиро	IPRO CO2001 Notwork Oddrocc Dou Sta	tur
E2 Unit01 16AI_001 8R0_001			ntrolle
1000	Setting P	hysical Address for: IPRO CO2001	
	Specify P	hysical Address Of Controller	
	A	ddress: 1	
Enter value an	1 Press ENTE	R to Set Address	

Figure 11 - physical device address

3. Once the device is addressed and wired properly, the device should appear online.



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