E2 Setup with the MRLDS-550 for 527-0650

The MRLDS-550 (*P/N 809-1022*) requires adding a description file (*P/N 527-0650*) and a license key to E2.

Contact Customer Service to obtain this information:

- Email: ColdChain.CustomerService@copeland.com
- Phone: 770-425-2724 Option 4

New Installation: Uploading the MRLDS-550 Description File to E2

Note that UltraSite 32 💆 software should be installed to perform a description file upload.

- 1. Connect to E2 using UltraSite32 (refer to the *UltraSite32 Manual P/N 026-1002*).
- 2. Launch UltraSite program and enter "USER" in the Username field and "PASS" in the Password field to login.
- 3. Double-click UltraSite to view the **Directory Level** and **Site Level** (see *Figure 1*).
- 4. Right-click Site Level and click Connect.
- 5. Double-click **Site Level** and locate the E2 where the **MRLDS_550.dsc** will be installed.

6. Right-click the unit and select **Upload Description File**.



Figure 1 - UltraSite Directory Level



7. Click Browse to select the appropriate description (*.dsc) file for MRLDS_550.dsc from the computer and click Open.

	Organize - New folder)= • (
I o delete à lile, fait select nom the last	Revorites Name Desktop Tasks Downloads Recent Places Recycle Bin Libraries Documents Music Music Pictures Videos Videos	Date modified Type 11/10/2017 4:04 PM DSC File
FILE - Click Browse to select the file to upload Browse	Figure 3 - Select E2	

Figure 2 - Browse E2 Description File

8. Click **Upload**. A window will display that the description file was successfully imported. Click **OK**. The description (*.dsc) file should appear inside the window.

E2 De	delete a file, first select from the list
	MRLDS_550.dsc
UltraSite32	×
A	Description data for MRLDS 550 version 0.0 was imported from
	MILLUS_JUUUSL as English language.
	C:\Users\Aaron.Javier\Desktop\Tasks\Description Files\7. MRLDS

Figure 4 - E2 Description File Upload

9. Once completed, disconnect from the E2 and reboot the E2 controller — either manually with the toggle switch or remotely through Terminal Mode.

Note: Do not omit step of rebooting the controller.

Entering the License for the MRLDS-550

- 1. Log into the E2 by pressing the Login/Logout) key and enter "USER" in the Username field and "PASS" in the Password field.
- 2. Press then (12, 19) to enter Licensing and press **F1** to add the description file license.
- 3. Enter the 16 alphanumeric characters provided by Technical Support and press to save.

08-04-14 🔹 🧑 💷	CX-300 Add L	Uni icen	t 2 🗟 5e	15:05:30
Licensed Features- 08/ For controller model t Feature	04/2014 - 15:05:23 - Rev ype: CX-300 Maximum In-	: 4.(Jse	36F01 License	ADUISORY SUMMARY Fails 6 Alarms 0 Notices 5
16AI 4AO Log Group 8RO Area Controller CC100-Suction UC7V52 Air Handling Unit CC100-Liquid Irrigation Pulse Accumulatio	Activate Feature Enter License key to activate a Feature:		-B1F4-225E-9A91	NETWORK OVERVIEW IDNet-1 • NODBUS-1 • Echelon •
Analog Sensor Ctr Loop/Sequence Ctr Lighting Control Power Monitoring Condenser Control Digital Sensor Ctrl Heat/Cool Control	24 8 2 24 6	8 9 9 9	8986-F349-BDCE-E8E2	E2 Unit02 Rev 4.06F01 IP 10.161.200.207 English-US
Enter desired text			Ļ	F5: CANCEL

Figure 5 - Adding MRLDS-550 License

Device Setup

E2 Serial Port Setup

- 1. Log into the E2 controller by pressing (Login/Logout)key.
- 2. Enter "USER" in the Username field and "PASS" in the Password field and press the Log MOUT (Login/Out) key.
- 3. Press then ([†], [#], and ¹) (General Controller Information), then press **F2** twice to move to the **C3: Serial** tab.

C1: General	C2: Eng Units	C3: Serial	C4; TCP/IP	C5:	Peer	Netwrk	ADVISORY	SUMMARY
C6:	C7: System	C8:	C9:	C0:	MORE		Fails	9
	Gener	al Setup: GENE	RAL SERV				Alarms	9
							Notices	3
Serial	Value					ll.		
COM1 Conne	ction : Not U	sed				1 T		
COM2 Conne	ction 🤆 MODBU	S-1					NETWORK	OVERVIEW
COM2 Baud	: 96.00	haud					MODBUS-	1 🔶
COM2 Data	Size :	8						
COM2 Parit	y :None							
COM2 Stop	Bits :	1						
COM3 Conne	ction : Modem							
COM3 Baud	: 115.2	Kbaud						
COM3 Modem	Port : No Mo	dem						
COM3 Modem	Type : CPC 3	3.6K Internal						
COM3 Modem	Init : ATEOV	150=1510=40&D2	&U2 / NO%C O&K O&Y O&N	19				
CUM3 Fax I	nit : AIV1E	050=1510=40&D2	KUS / NU%C UKK UKY UK\	0				
CUM4 Conne	CTION : MUDBU	5-2					50 11-11-0	
COM4 Baud	: 9600	Dauu					E2 UNICU	
com4 Data	S120 :	8					Dou: 1: 00	F 04
	pitc :	1				Ļ	NEO 4.08	FUI
CON4 SCOP	BIUS .					lí I		
							English-	211
							English-	03
Scroll using N	lext/Prev keys	Connection T	ype for COM2					
	D 50. NE	T TAD	FOR FRIT	C 1	1.001/		FF	PANOLI

Figure 6 - Port Setup Screen

- 4. Press the down \heartsuit arrow to the COM Connection to where the device is wired.
- 5. Press **F4** (LOOK UP) and select **MODBUS-1** (if MODBUS-1 is being used, select MODBUS-2 or MODBUS-3 connection), then press to set configuration.
- 6. Press F4 to select options and set the MODBUS connection as follows:

COM Baud:	9600 Baud
COM Data Size:	8
COM Parity:	None
COM Stop Bits:	1

- 7. Press to set configuration, then the the key to save the changes.
- 8. Press the **G** key to return to the **Home** screen.

MODBUS Connection



Figure 7 - MODBUS Connection

Note that the polarity of the RS485 MODBUS connection between E2 and the 550 is reversed.

Adding the MRLDS-550 Application on E2

- 1. Press when 2, 2, and 2 to enter Connected I/O Boards and Controllers.
- 2. Press F2 twice to move to C4: Third Party tab. Highlight the MRLDS 550 application and enter the desired number of devices under Quantity.

C1: This Unit	C2: I	0 Netw	ork C3:	ECT	C4: Third	Partų	C5: Echelon
C6:	C7:		C8:		C9:		C0:
		Num	Networ	k Ctrls: M	NetSetup		
	Third H	Party	Board T	ype	Quantity	Max	
		#1 :	CT M400	VFD	_ 0	16	
		#2 :	MGS250		9	0	
		#3 :	MRLDS 5	50	5	20	
		#4 :	RMS Sca	le	6	1	
		#5 :	Sporlan	SH Ctrl	6	10	
l							



- 3. Press the back key to save the changes.
- 4. Press **O** to return to the **Home** screen.

Commissioning the MRLDS-550

- 1. Press then 2, 2, and to enter the Network Summary screen.
- 2. Highlight the MRLDS-550 to be commissioned and press F4.

Figure 9 - Network Summary Screen

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3. If a box with **Select Network** appears on the screen, select the MODBUS number where you configured the device — either **MODBUS-1**, **MODBUS-2**, or **MODBUS-3** and press



Figure 10 - Select Network Screen

4. Select the address for the device and press .

Name Type Naturel/ Oddescr Rev Status ADUISORY SUMMAR E2 Unit02 CX400 C-Sto MODBUS-1 Devices 4.08F03 This Controller Alarms 8R0_001 8R0 1. (Unused) 4.08F03 This Controller Notices 4A0_001 1. (Unused) 8.00 Offline 0.00 Offline Notices 4RTC/RTU_001 ARTC/RTU 3. (Unused) 0.00 Offline Network overvie VRLDS 550001 MRLDS 550 5. (Unused) 0.00 No Port MODBUS-1	ARY
8. (UNUSED) 9. (UNUSED) 10. (UNUSED) 11. (UNUSED) 12. (UNUSED) 13. (UNUSED) 14. (UNUSED) 15. (UNUSED) 14. (UNUSED) 15. (UNUSED) 15. (UNUSED) 16. (UNUSED) 17. (UNUSED) 18. (UNUSED) 19.	16 16 9
15. (Unused) 16. (Unused) 17. (Unused) 18. (Unused) ▼ English=US	

Figure 11 - Select Device Address Screen

6

Note that the MODBUS address must be the same as the address assigned on the device.

5. A window will appear. Press to continue.

11-10-17 🔹 🥝	TM	C Ne	X-400 Unit twork Summa	2 ary	۵	FULL		17:06:08 <mark>*Alarm*</mark>
Name	Туре	U Notwork Ad	nknown Devi deocc	ice 01 Rev	Status		ADVISORY S Fails	SUMMARY
E2 Unit02 8R0_001	CX400 C-Sta 8R0 400		-	4.08F03 0.00	3 This Cont Offline	roller	Notices	16 16
ARTC/R RCB_00 MRLDS	Setting Phys	sical Address f	or: Unkn	own Devi	ice 01		NETWORK OU IONet-3 MODBUS-1	JERVIEW • •
	Specify Phy	sical Address O	f Controll	er				
	Addı	ress: _ 1						
							E2 Unit02	
							Rev 4.08F	03
							English-US	s
Enter value	and Press ENTER 1	o Set Address						

Figure 12 - Set the Physical Address for the MRLDS-550

- 6. Press the 🖘 key to save the assigned address.
- 7. Press the Deckey to return to the Home screen and press then **7**, **7**, and **1** to enter the Network Summary screen again.
- 8. After a few seconds, the MRLDS-550 should appear **Online**.

	Network S	ummary	E Full	Image: Second system 17:06:5 FULL *ALARM			
Name Type	Network Address	Rev	Status	ADVISORY SUMMARY Fails 4 Alarms 2			
22 Unit02 CX400 C-Store R0_001 8R0 40_001 4A0 RTC/RTU_001 ARTC/RTU RCB_001 MFlex RCB/RCB- RLDS 550001 MRLDS 550	re Ethernet: IDNet-3: IDNet-3: IDNet-3: CB-P IONet-3: MODBUS-1:	2 4.08F03 1 9.69 1 9.69 1 9.69 1 9.69F01 1 9.69 1 9.09	This Controller Offline Offline Offline Offline Online	Notices 16 Network overview IONet-3 • MODBUS-1 •			
				E2 Unit02 Rev 4.08F03			

Figure 13 - MRLDS-550 Online

Viewing the Status

Press then **5**, **4**, **6**, and **6** (this is equivalent to pressing **Menu** then **5**; **400**) or use the cursor to navigate to **MRLDS 550** and press **E**

11-10-17 🔹 🦿 CX-400 Unit 7:08:18 MRLDS 550 FULL ADVISORY SUMMARY 550001 MRLDS Fails Alarms Notices SENSOR 1 SENSOR 2 16 Full Scale 50000 Full Scale NONE Level % Level PPM 10.00 5000 Level % Level PPM NONE NONE NETWORK OVERVIEW IONet-3 MODBUS-1 ALARM SETPOINTS ALARM SETPOINTS Low Setpoint Medium Setpoint High Setpoint Low Setpoint Medium Setpoint High Setpoint 15000 5 20000 40000 S ALARMS ALARMS Sensor Fault Code Sensor Fault Code 5 NONE Sensor Fault Sensor Fault NOTACT Low Alarm Flag Low Alarm Flag NOTACT Medium Alarm Flag High Alarm Flag Medium Alarm Flag High Alarm Flag NOTACT NOTACT E2 Unit02 Misc Rev 4.08F03 Instrument Fault Code Sensor 1 Start Up Sensor 2 Start Up Relay 1 State Relay 2 State Relat 3 State 768 OFF OFF NOTAC OFF English-US F4: SENSORS F3: CIRCUITS F1: AHU F5: SETUP

Figure 14 - View Status Screen

For a copy of the 550 User Manual, click:

https://www.mybacharach.com/wp-content/uploads/pdf/MGS-550/MGS-550%20User%20Manual.pdf

Or visit the manufacturer's page:

https://www.mybacharach.com/product-view/mgs-550/

Visit our website at copeland.com/en-us/products/controls-monitoring-systems for the latest technical documentation and updates. For Technical Support call 833-409-7505 or email ColdChain.TechnicalServices@Copeland.com

026-4965 R3

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