EDR Field Config – TTD

Preceding Steps

1. The module should be installed in the panel and wired, see the EDR Installation guide for TTD.
2. The TTD communication settings should be verified.
    a. “rtu” should be set to “1”
    b. “Port” should be set to “0” (RS485)
    c. “baud” should be set to “0” (9600,N,8,1)

1. Check for existing config

Check the drawing number for the panel against any known configuration folders, and if it has already been made then those files can be used for this unit. In this case, note the file location and skip to step 5.

2. Getting Input Channel List

Write down the shutdown code list from the panel code plate or sheet.

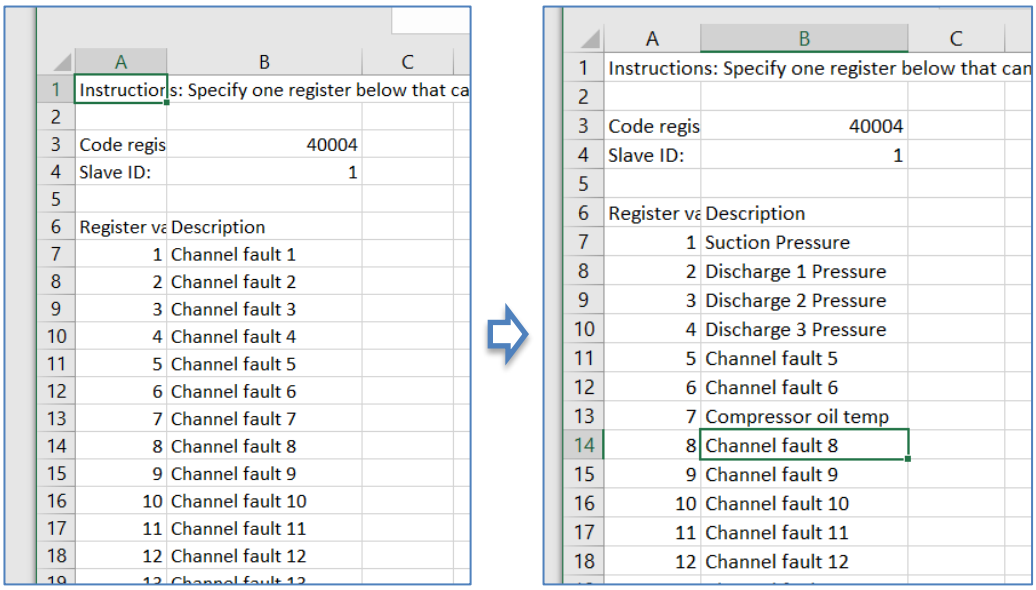
3. Copy default files

On a computer, make a copy of the three files for the blank TTD configuration into a new folder for this unit.

4. Update Shutdown Code Table

Opening the new folder for the unit configs, open the EMIT_TEL_ShutdownCodes file.

Each register value refers to a channel. For each channel in the channel list, put its name in the appropriate row that matches the channel number. If a channel is not used, it can be left as “Channel Fault #” since it should not be relevant.



	A	B	C
1	Instructions: Specify one register below that ca		
2			
3	Code regis	40004	
4	Slave ID:	1	
5			
6	Register va	Description	
7	1	Channel fault 1	
8	2	Channel fault 2	
9	3	Channel fault 3	
10	4	Channel fault 4	
11	5	Channel fault 5	
12	6	Channel fault 6	
13	7	Channel fault 7	
14	8	Channel fault 8	
15	9	Channel fault 9	
16	10	Channel fault 10	
17	11	Channel fault 11	
18	12	Channel fault 12	

	A	B	C
1	Instructions: Specify one register below that can		
2			
3	Code regis	40004	
4	Slave ID:	1	
5			
6	Register va	Description	
7	1	Suction Pressure	
8	2	Discharge 1 Pressure	
9	3	Discharge 2 Pressure	
10	4	Discharge 3 Pressure	
11	5	Channel fault 5	
12	6	Channel fault 6	
13	7	Compressor oil temp	
14	8	Channel fault 8	
15	9	Channel fault 9	
16	10	Channel fault 10	
17	11	Channel fault 11	
18	12	Channel fault 12	

The above example shows editing channel 1 to be “Suction Pressure”, Channel 2 to be “Discharge 1 Pressure”, and so on.

Make sure to use “save” (not save as) so that the file stays a “csv” file.

5. Uploading the Config Files

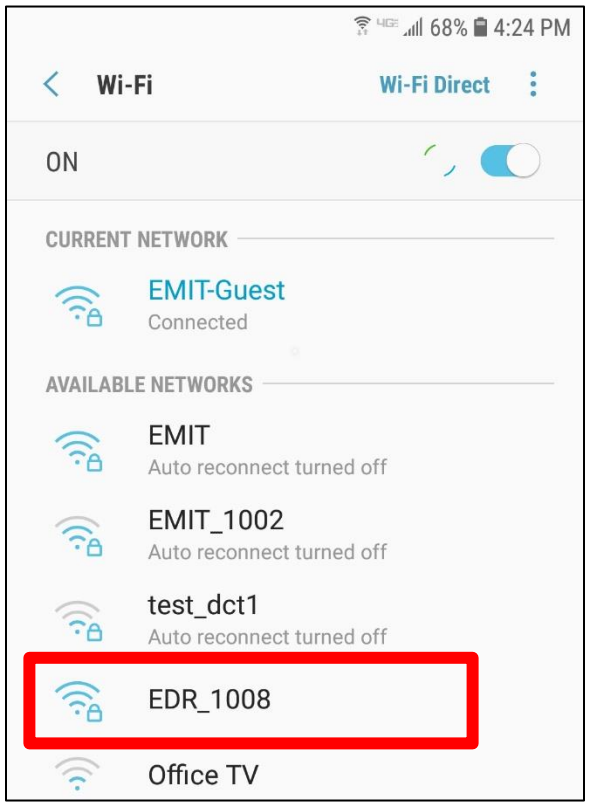
Once the two files are ready (the 3rd file EMIT_TEL_RunStatusTable does not need to be edited) connect your computer to the EDR wifi console using these steps.

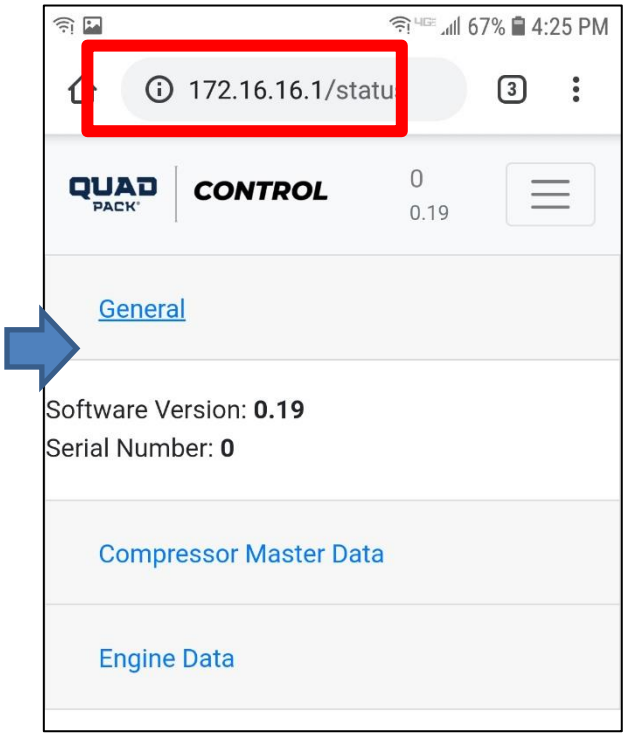
Connecting

Check your target device’s Wi-Fi settings for a network called “EDR_xxxx”, where xxxx is the serial number of the Data Relay. Connect to this network and enter the password ‘emitemit’.

Note: There will be no internet access while you are connected to the network. It is recommended that you turn auto reconnect off.

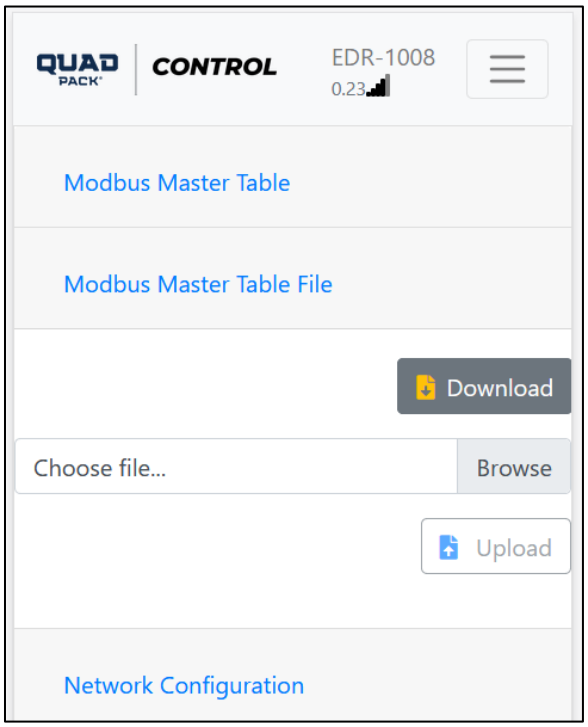
Once connected, open a web browser and type http://172.16.16.1/ . This will bring up the Data Relay console.





Uploading the Files

On the Modbus Master tab, go to the “Modbus Master Table File” dropdown, browse for the new master table file, and select “Upload”.



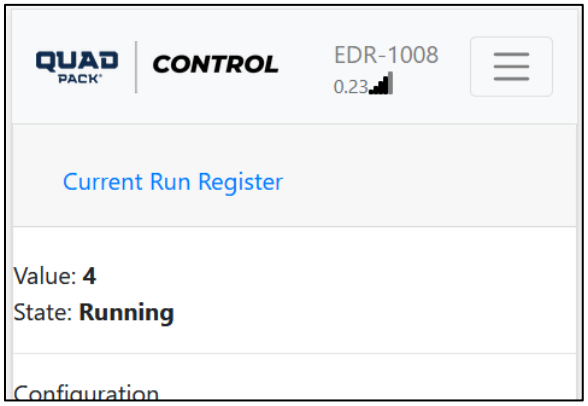
Choose file location

Under the network configuration dropdown set the baud rate to 9600 and make sure “Use Serial” is checked.

On the Alerts Tab, go to the “Table Configuration Files” dropdown and upload the fault code and run status table. (Note that the run status table is the same for all TTDs so it didn’t have to be changed from the default file).

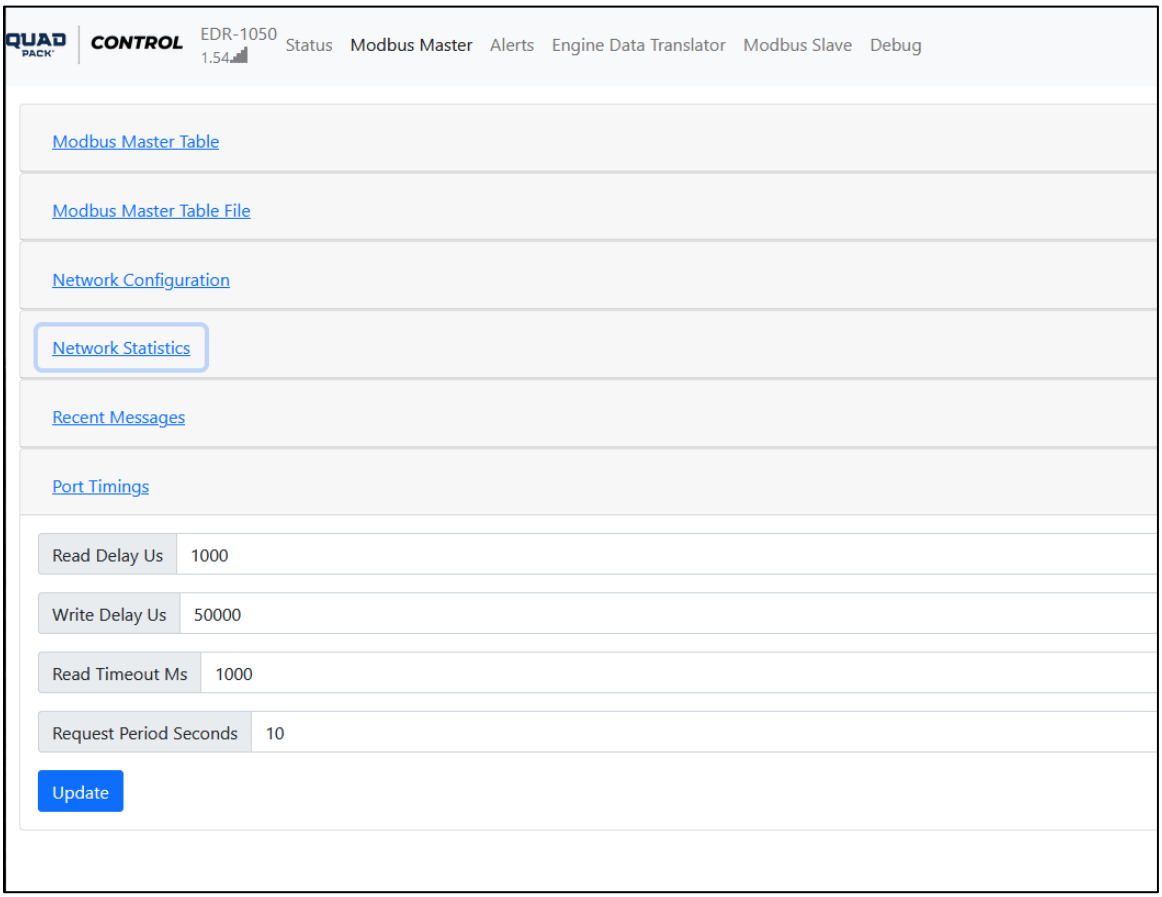
Checking the Config

On the Alerts tab, open the dropdown for “Current Run Register” and “Current Fault Register”. Both should show some valid state other than TIMEOUT.



If the values are not reading, it is likely because the Modbus A/B are swapped, the baud rate is not correct on the EDR or TTD, or the TTD node ID is not set to 1.

6. Updating Write Delay

The EDR communicates better when the write delay setting is increased.

Under Modbus Master, open the dropdown for “Port Timings”. Change the “Write Delay Us” from the default of 10,000 to a new value of 50,000 and select “Update”.