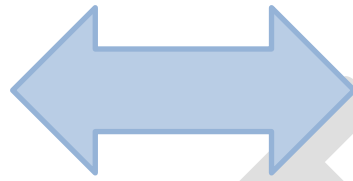


Commissioning CoreSense Protection with XWEB500



XWEB300D/500/500D



CoreSense Protection

CoreSense COMMUNICATION PRE-REQUISITES

CoreSense firmware F37 or later is required.

CoreSense SETUP

The CoreSense Protection device must be set up by using the settings below:

1. DIP Switches

Assign an unique address to CoreSense device. DIP switches 1 through 6 is used for addressing the device. Figure 1, is an example that shows DIP switch #1 in the “ON” position and therefore is assigned to address 1. The combination positions 1 through 6 can be used to define the device address from 1 to 63. See Figure 2 for addressing configurations options. Each device connected to XWEB must have a unique address.

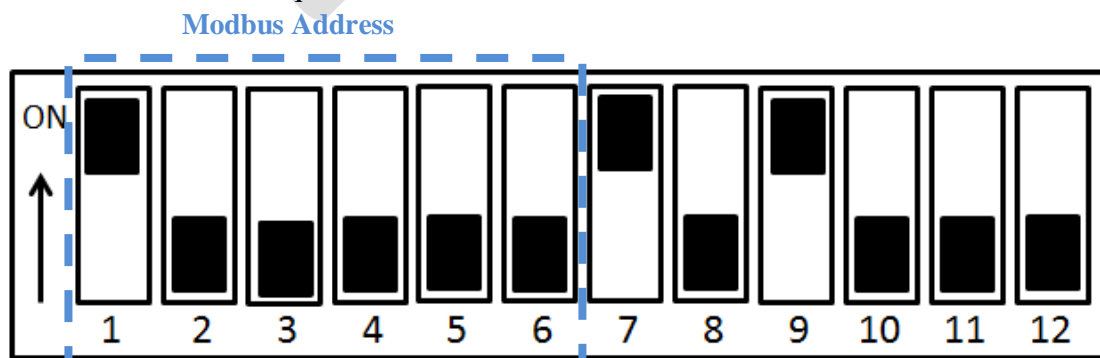


Figure 1: DIP Panel on CoreSense Protection Module

Node Address	1	2	3	4	5	6
#1	On	Off	Off	Off	Off	Off
#2	Off	On	Off	Off	Off	Off
#3	On	On	Off	Off	Off	Off
#4	Off	Off	On	Off	Off	Off
#5	On	Off	On	Off	Off	Off
#6	Off	On	On	Off	Off	Off
#7	On	On	On	Off	Off	Off
#8	Off	Off	Off	On	Off	Off
#9	On	Off	Off	On	Off	Off
#10	Off	On	Off	On	Off	Off
#11	On	On	On	On	Off	Off
#12	Off	Off	On	On	Off	Off
#13	On	Off	On	On	Off	Off
#14	Off	On	On	On	Off	Off
#15	On	On	On	On	Off	Off
#16	Off	Off	Off	Off	On	Off
#17	On	Off	Off	Off	On	Off
#18	Off	On	Off	Off	On	Off
#19	On	On	Off	On	On	Off
#20	Off	Off	On	Off	On	Off
#21	On	Off	On	Off	On	Off
#22	Off	On	On	Off	On	Off
#23	On	On	On	Off	On	Off
#24	Off	Off	Off	On	On	Off
#25	On	Off	Off	On	On	Off
#26	Off	On	Off	On	On	Off
#27	On	On	Off	On	On	Off
#28	Off	Off	On	On	On	Off
#29	On	Off	On	On	On	Off
#30	Off	On	On	On	On	Off
#31	On	On	On	On	On	Off
#32	Off	Off	Off	Off	Off	On
#33	On	Off	Off	Off	Off	On
#34	Off	On	Off	Off	Off	On
#35	On	On	Off	Off	Off	On
#36	Off	Off	On	Off	Off	On
#37	On	Off	On	Off	Off	On
#38	Off	On	On	Off	Off	On
#39	On	On	On	Off	Off	On
#40	Off	Off	Off	On	Off	On
#41	On	Off	Off	On	Off	On
#42	Off	On	Off	On	Off	On
#43	On	On	Off	On	Off	On
#44	Off	Off	On	On	Off	On
#45	On	Off	On	On	Off	On
#46	Off	On	On	On	Off	On
#47	On	On	On	On	Off	On
#48	Off	Off	Off	Off	On	On
#49	On	Off	Off	Off	On	On
#50	Off	On	Off	Off	On	On
#51	On	On	Off	Off	On	On
#52	Off	Off	On	Off	On	On
#53	On	Off	On	Off	On	On
#54	Off	On	On	Off	On	On
#55	On	On	On	Off	On	On
#56	Off	Off	Off	On	On	On
#57	On	Off	Off	On	On	On
#58	Off	On	Off	On	On	On
#59	On	On	Off	On	On	On
#60	Off	Off	On	On	On	On
#61	On	Off	On	On	On	On
#62	Off	On	On	On	On	On
#63	On	On	On	On	On	On

Figure 2: DIP Addressing Configurations

DIP Switch #7: ON. Baud Rate: 9600

DIP Switch #8: OFF. No Parity

DIP Switch #9: ON. Controller Mode-Network

DIP Switch #12: OFF. VFD Mode

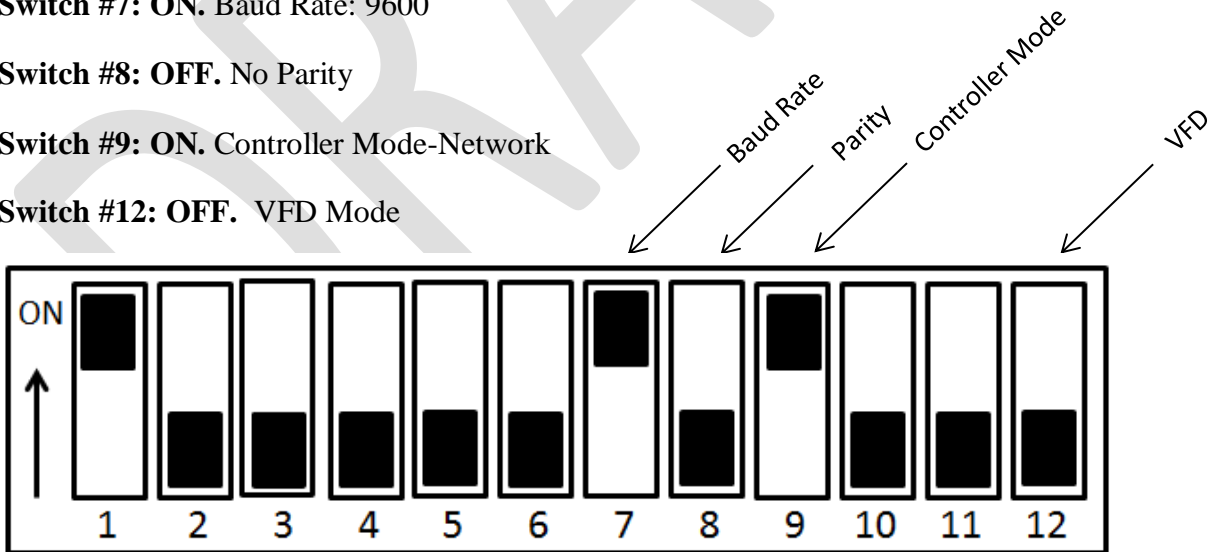


Figure 3: DIP Switch Configurations

2. **JP4: Postion 2-3.** Stop Bits 1, the left most position. Refer to Figure 4.
3. **RS485 connection:** Remove the three postion screw cable connector from the CoreSense module and connect one end of the RS485 communication wire to the three position screw connector, “+”, “GND”, “-“ and plug connector back into the CoreSense device.

The RS485 communication polarity on the CoreSense device must match the XWEB RS485 polarity.

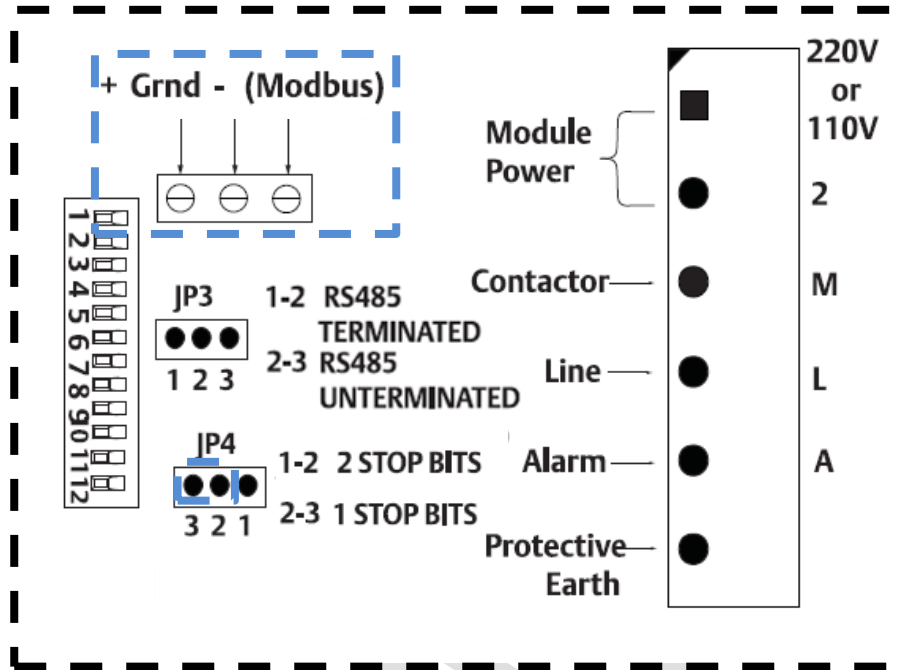


Figure 4: CoreSense Circuit Board

4. Cycle power to the CoreSense module by pressing the red reset button located on the bottom of the CoreSense device.

XWEB300D/500/ 500D CONNECTION WITH CoreSense PROTECTION

1. Set up a client to server connection. Contact IT group to set up connection.
 - i. **Modem:** point to point through local and remote modem devices (“Creating a Remote Access under Windows”)
 - ii. **Intranet / Internet:** where available a static IP, using the standard socket 10 Base-T with RJ45 connector. Use the static IP address assigned from IT group for connection.
 - iii. **Cross over Ethernet cable:** You can plug a bridge network cable into RJ45 socket of XWEB and on the other side into your PC network adapter. Ask your network administrator to properly setup your PC to be able to access XWEB web pages.

2. Launch web browser through connection and then log into XWEB.

NOTE: XWEB Default IP Below:

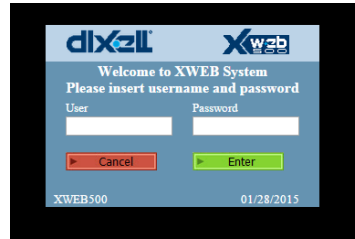
IP Address: 192.168.0.150

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

Default User: Admin

Default Password: Admin



3. Turn off all active monitoring by clicking Start/Stop from the XWEB homepage and deselecting all active monitoring. Data Reading, Date Recording and Alarm Sending should read **Not Active**. To change any configurations, the XWEB cannot be actively monitoring. Refer to Figure 5

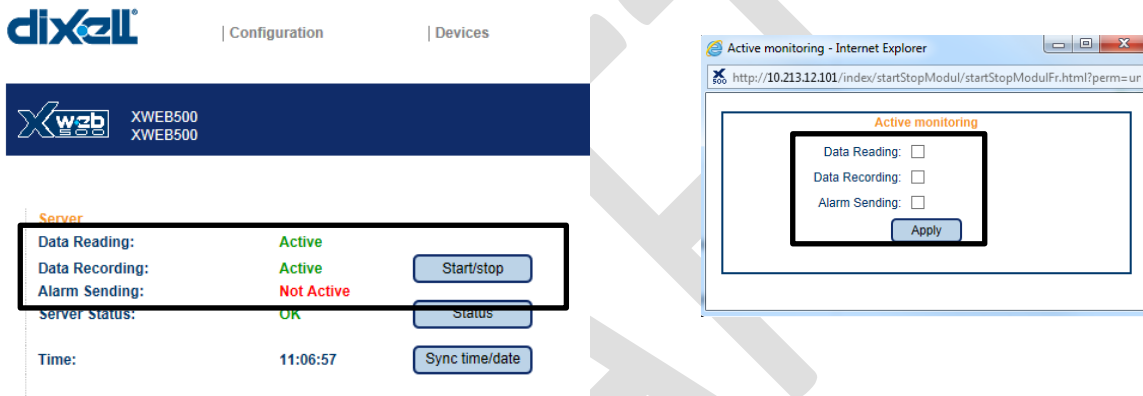


Figure 5: Turning Off All Data Logging

4. Download the CoreSense Protection Library (xw5-file) with newest download from www.dixell.com. On the left side of the web page click “Login” and login if already a member, if not member click “Register” and set up a username and password.

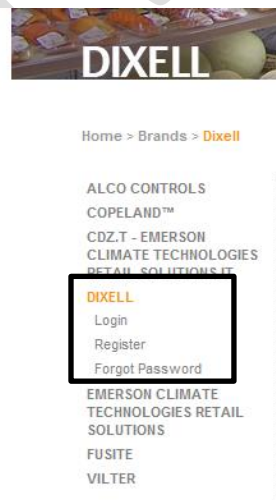


Figure 6: Dixell Login

- Under “Libraries” click XWEB and search for CSXWEB. Download the file and save to desktop. Close the Dixell webpage and return to the XWEB page.



Figure 7: Dixell Webpage

- From the XWEB homepage select the Configuration Tab->Device Models.

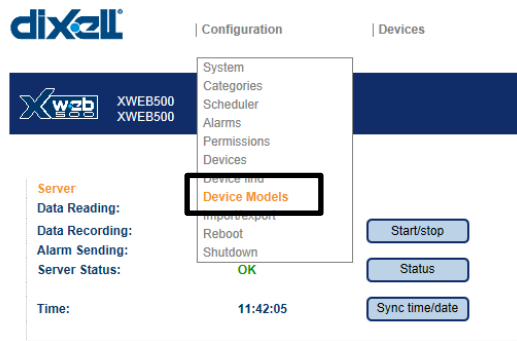


Figure 8: Device Models

- Scroll down to the bottom and click import. And select the new library file that was downloaded and saved on your desktop.

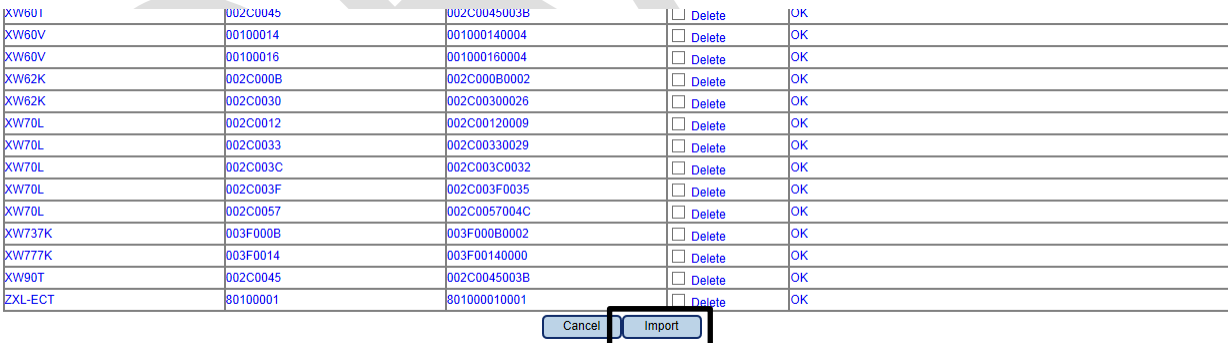


Figure 9: Importing Library

8. Add device: Click the Configuration tab-> Devices.

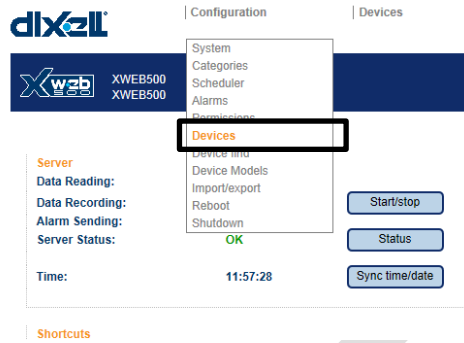


Figure 10: Devices

9. Under action select “New”.

NOTE: Each device connected to XWEB must have a unique address.

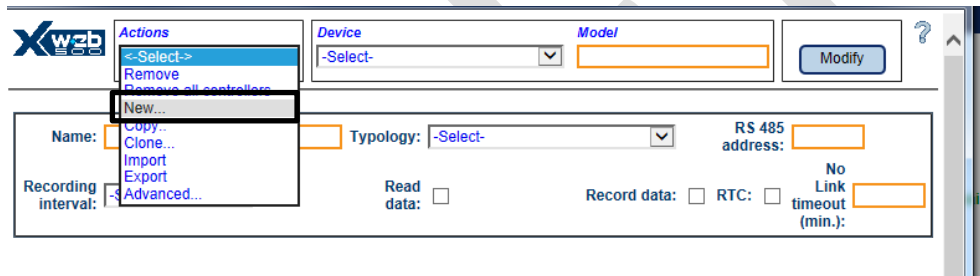


Figure 11: New Device

10. Name your CoreSense Protection device. Select the model file downloaded from the Dixell website and choose the address previously assigned to the CoreSense device. Press New, then Ok to create new device.

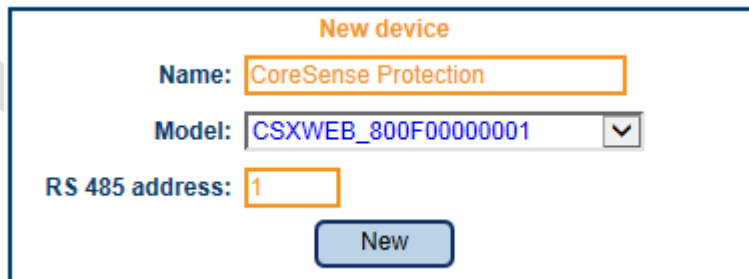


Figure 12: Adding a New Device

11. The advanced configuration must now be set up. Select the Configuration tab-> Devices

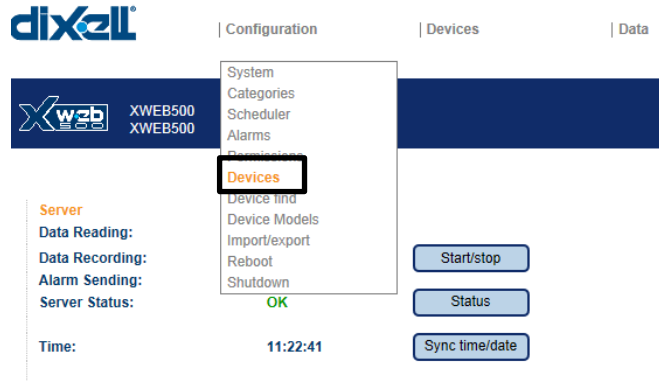


Figure 13: Device

12. Under Device, Select the newly added device. Under Actions select Advanced.

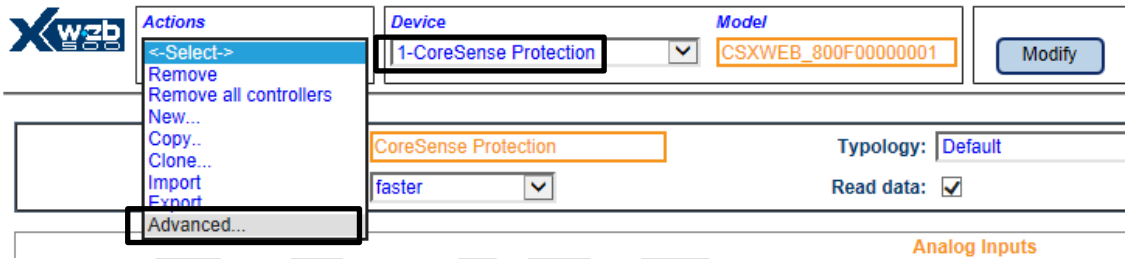


Figure 14: Advanced

13. Select the Analog Inputs, Digital Inputs, Output Status, Device Status, Alarms and Commands desired to view, by checking the enable box. Then click “Modify” and exit out of the Advanced Device Configuration screen.

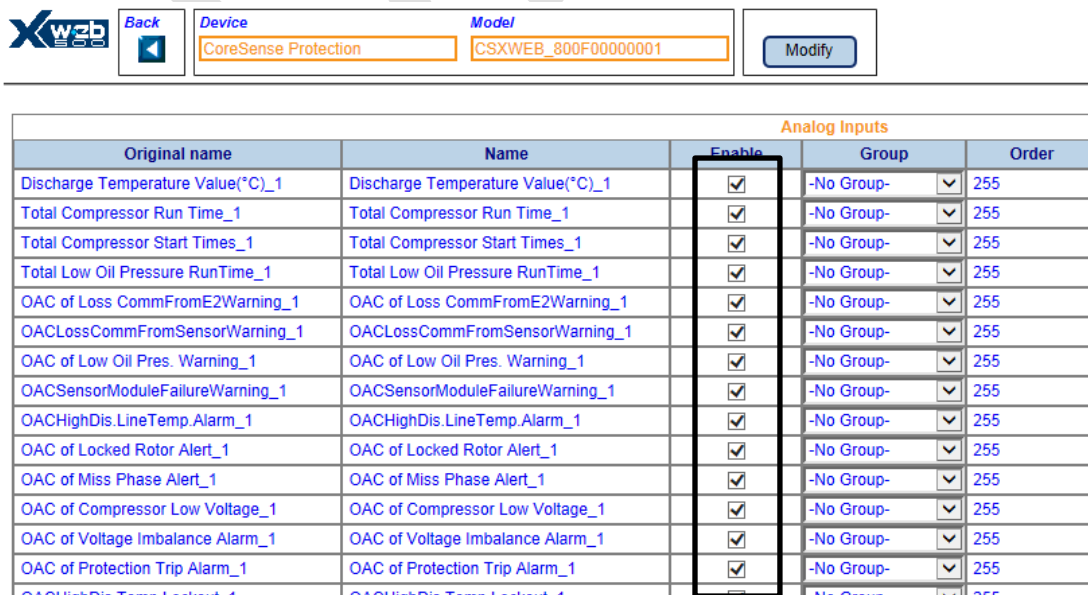


Figure 15: Selecting Monitoring and Command Options

14. To begin monitoring click Start/Stop and select the desired monitoring. Click “Apply”.

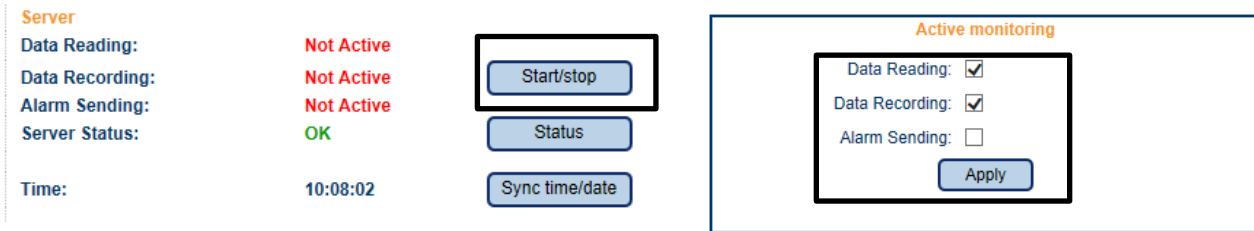


Figure 16: Selecting Monitoring and Command Options

15. To see the actively monitored device, click Devices->Single View.

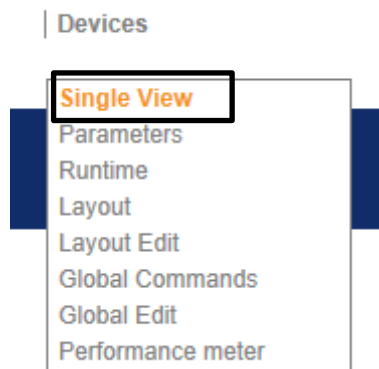


Figure 17: Single View

16. Select the desired device to view and check Auto under update. The table will populate with real time data.

The screenshot shows the 'Xweb' interface with the following controls:

- Device filter: -All typologies- (dropdown)
- Device: ADR=1-CoreSense Protectio (dropdown)
- Update: Auto 10 Update (button)
- View: Parameter (button)

Below the controls is a table of parameters:

Analog Inputs					
Discharge Temperature Value(°C)_1	-39.3 °C	OAC of Miss Phase Alert_1	0	Compressor R Phase Voltage_1	0.00 Volt
Total Compressor Run Time_1	0 hour	OAC of Compressor Low Voltage_1	0	Compressor Y Phase Voltage_1	0.00 Volt
Total Compressor Start Times_1	2	OAC of Voltage Imbalance Alarm_1	0	Compressor B Phase Voltage_1	0.00 Volt
Total Low Oil Pressure RunTime_1	0 hour	OAC of Protection Trip Alarm_1	0	Compressor Current Y Phase_1	0.00 Amp
OAC of Loss CommFromE2Warning_1	16	OACHighDis.Temp.Lockout_1	0	LRA Peak Current_1	0.00 Amp
OACLossCommFromSensorWarning_1	0	OAC of Locked Rotor Lockout_1	0	Power Consumption_1	0.00 KW
OAC of Low Oil Pres. Warning_1	3	OAC of Miss Phase Lockout_1	0	Total No. of Short Cycles_1	2
OACSensorModuleFailureWarning_1	0	OAC of Low Oil Pres. Lockout_1	0	Total Alarm Run Hours_1	23 hour
OACHighDis.LineTemp Alarm_1	1	OAC of Module Failure_1	0		
OAC of Locked Rotor Alert_1	0	OACComp.LowVoltageLockout_1	0		

Set Point			
DLT temp trip set point(°C)	155.1 °C	DLT temp trip reset point(°C)	131.2 °C

Figure 18: Single View of Parameters