Commissioning CoreSense Protection with XWEB500



CoreSense Protection

XWEB300D/500/500D 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	Off	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	Off	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

BaudRate

Parity

controller Mode

JKD

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



 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

	0	Devices	Active monitoring - Internet Explorer	
XWEB500 XWEB500			Image: State Stat	opModulFr.html?perm=ur
Server Data Reading: Data Recording: Alarm Sending: Server Status: Time:	Active Active Not Active OK 11:06:57	Start/stop Status Sync time/date		

Figure 5: Turning Off All Data Logging

4. Download the CoreSense Protection Library (xw5-file) with newest download from <u>www.dixell.com</u>. One 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

5. 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.

XWEB3000 XWEB5000				
XWEB3000/5000 EVO	Enter Keyword here:	COVINER	Saarah	
XCenter	Litter respired anote:	CONVEB	Searci	
LIBRARIES	INSTRUMENT MODEL	FILE	VERSION	DOWNLOAD LINK
XWEB	Clear Result			
CERTIFICATIONS	CSXWEB	CSXWEB_800F00000001	v.0.0	download

Figure 7: Dixell Webpage

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

	Configuration	Devices	
	System Categories Scheduler Alarms Permissions Devices		
Server Data Reading:	Device Models		
Data Recording: Alarm Sending:	Reboot Shutdown	Start/stop	
Server Status:	ОК	Status	
Time:	11:42:05	Sync time/date	

Figure 8: Device Models

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

XW601	002C0045	002C0045003B	Delete	юк		
XW60V	00100014	001000140004	Delete	ок		
XW60V	00100016	001000160004	Delete	ок		
XW62K	002C000B	002C000B0002	Delete	ок		
XW62K	002C0030	002C00300026	Delete	ок		
XW70L	002C0012	002C00120009	Delete	ок		
XW70L	002C0033	002C00330029	Delete	ок		
XW70L	002C003C	002C003C0032	Delete	ок		
XW70L	002C003F	002C003F0035	Delete	ок		
XW70L	002C0057	002C0057004C	Delete	ок		
ХW737К	003F000B	003F000B0002	Delete	ок		
хw777к	003F0014	003F00140000	Delete	ок		
XW90T	002C0045	002C0045003B	Delete	ок		
ZXL-ECT	80100001	801000010001	Delete	ок		
Cancel Import						

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.

Actions <-Select-> Remove Remove all controllars	Device -Select-	Model	Modify	?	^
Name: Copy Clone Import Export interval: -4 Advanced	Typology: -Select- Read data:	Record data:	RS 485 No Link Link (min.):		

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

dixell	Configuration	Devices	Data
XWEB500 XWEB500	System Categories Scheduler Alarms		
Server Data Reading: Data Recording: Alarm Sending: Server Status:	Devices Device Ind Device Models Import/export Reboot Shutdown OK	Start/stop Status	
Time:	11:22:41	Sync time/date	

Figure 13: Device

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

wzh	Actions	Device Model	
K EOO	<-Select->	1-CoreSense Protection CSXWEB_80	0F00000001 Modify
	Remove Remove all controllers		
	New		
	Copy	CoreSense Protection	Typology: Default
	Import Export	faster 🔽	Read data: 🔽
	Advanced		
			Analog Inputs



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.

	Back	Device CoreSense Protect	ion	Model CSXWEB_800F00000001			Мо	odify	
						А	١na	alog Inputs	
	Origina	name		Name		Enable		Group	Order
Discharge Te	emperatur	e Value(°C)_1	Discharge Tem	perature Value(°C)_1		\checkmark		-No Group- 🗸 🗸	255
Total Compre	essor Run	Time_1	Total Compres	sor Run Time_1		✓	T	-No Group- 🗸 🗸	255
Total Compre	essor Star	t Times_1	Total Compressor Start Times_1			✓	٦	-No Group- 🗸	255
Total Low Oil	I Pressure	RunTime_1	Total Low Oil Pressure RunTime_1		Γ	✓	٦	-No Group- 🗸 🗸	255
OAC of Loss	CommFre	omE2Warning_1	OAC of Loss CommFromE2Warning_1			✓	٦	-No Group- 🗸	255
OACLossCor	mmFromS	ensorWarning_1	OACLossCommFromSensorWarning_1		Γ	✓	T	-No Group- 🗸	255
OAC of Low	Oil Pres. \	Narning_1	OAC of Low Oil Pres. Warning_1			✓	٦	-No Group- 🗸 🗸	255
OACSensor	/loduleFai	lureWarning_1	OACSensorModuleFailureWarning_1			✓	٦	-No Group- 🗸	255
OACHighDis.	.LineTemp	p.Alarm_1	OACHighDis.LineTemp.Alarm_1		Γ	✓	T	-No Group- 🗸	255
OAC of Lock	ed Rotor A	Alert_1	OAC of Locked	I Rotor Alert_1		✓	٦	-No Group- 🗸 🗸	255
OAC of Miss	OAC of Miss Phase Alert_1 OA		OAC of Miss P	hase Alert_1		✓	٦	-No Group- 🗸	255
OAC of Com	pressor Lo	ow Voltage_1	OAC of Compr	essor Low Voltage_1		<	T	-No Group- 🗸 🗸	255
OAC of Volta	ige Imbala	ince Alarm_1	OAC of Voltage	e Imbalance Alarm_1		 Image: A start of the start of	T	-No Group- 🗸	255
OAC of Prote	ection Trip	Alarm_1	OAC of Protect	tion Trip Alarm_1	Γ	✓	T	-No Group- 🗸	255
OA OU liab Dia	Tompla	alcout 4	OACUIANDIA T	amp Laskaut 4	1		Ť	No Croup	255

Figure 15: Selecting Monitoring and Command Options

Server Data Reading:	Not Active		Active monitoring
Data Recording: Alarm Sending: Server Status:	Not Active Not Active OK	Start/stop Status	Data Reading: ☑ Data Recording: ☑ Alarm Sending: □
Time:	10:08:02	Sync time/date	Apply

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.

Device filter -All typologies-	>	ADR=1-CoreSense Protectio	Update Auto	10 Update	/iew Parameter
		Analog Inputs			
				Compressor R Phase	0.001/-14
Discharge Temperature Value(°C) 1	-39.3 °	OAC of Miss Phase Alert_1	0	Voltage_1	U.UU Volt
Discharge Temperature Value(C)_1	С	OAC of Compressor Lo	w o	Compressor Y Phase	0.00 Volt
Total Compressor Run Time_1	0 hour	Voltage_1		Voltage_1	
Total Compressor Start Times_1	2	OAC of Voltage Imbalance	^e 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	
OAC of Loss CommFromE2Warning_1	16	OACHighDis Temp Lockout 1	0	. Phase_1	0.00 Amp
OACLossCommFromSensorWarning 1	0	OAC of Looked Peter Lookeut_1	0	LRA Peak Current_1	0.00 Amp
OAC of Low Oil Pres, Warning 1	3	OAC OF LOCKED ROLOF LOCKOUL_F	0	Power Consumption_1	0.00 KW
OACSensorModuleEailureWarning 1	0	OAC of MISS Phase Lockout_1	0	Total No. of Short Cycles_1	2
OACHighDig LingTown Alarm 1		OAC of Low Oil Pres. Lockout_1	0	Total Alarm Run Hours 1	23 hour
OACHIGHDIS.LINETEMP.Alarm_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.	I ⁰C	DLT temp trip reset point(° C)	131.2 °C		

Figure 18: Single View of Parameters