

nVent Air Conditioner NXT40B0E1U01500

Quick Start Guide

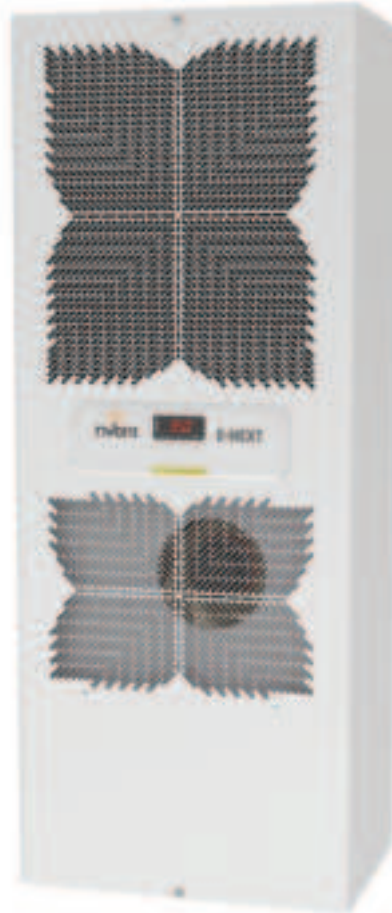


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CONTROLLER

1. Controller key functions



Key	Name	Function
	ON/Standby	Press and hold to turn the device ON or OFF or to return to the main page from an internal menu Press while setting parameters to cancel the edit and return to the screen
SET	SET	Hold
	UP	Press and hold to go to the settings menu Press to access the setpoint menu (SET) Press once to confirm the edit In menu navigation, it functions like an ENTER key
	DOWN	Press to navigate through menus Press and hold from the main page to LOCK (Loc) or UNLOCK (UnL) the keyboard

2. Controller icon descriptions



Icon	Meaning	Description
	Compressor	ON: Compressor is running BLINK: Timers are in progress BLINK FAST: Compressor is running under high load (sequencing configuration) OFF: Compressor is off
	Condenser fan	ON: Fan is running BLINK: Pre or post-ventilation cycle is in progress OFF: Fan is off
	Heater (optional)	ON: Heating element is on BLINK: Timing is in progress OFF: Heating element is off
	Alarm	ON: At least one manual reset alarm is in progress BLINK: Automatic reset alarms are in progress OFF: if no alarm is in progress
	Energy saver	ON: if the evaporator fan economy cycle is in progress OFF: if the evaporator fan economy cycle is not in progress
	Gear	ON: Device is not in the primary view BLINK: Maintenance reporting is active OFF: Normal operation
	Celsius degrees	Units in °C
	Fahrenheit degrees	Units in °F
	Units of measurement %	OFF
	On/Standby	ON: Regulation is not active OFF: Regulation is active

3. Changing cooling setpoint

Press **SET** to access the **COO** parameter for setting the cooling setpoint.



Step 1: Press **SET**, **COO** will appear



Step 2: Press **SET**, cooling setpoint will appear



Step 3: Press **SET** until setpoint blinks



Step 4: Press **up** or **down** to adjust, press **SET** to save desired setting, press **SET** to exit

4. Accessing main menu

Press and hold **SET** to enter the **User menu** level.

Available menus:

- **SEt** Access to adjust cooling setpoint
- **ALM** View the list of active alarms
- **PAr** View and edit device parameters
- **OHr** View the operating hours of the device and components
- **HiS** View alarms history
- **nFo** Displays device information
- **PSS** Enter passwords to access the Maintenance and Manufacturer user levels
- **CoL** For starting the testing sequence

To scroll through menu options, press the **up** or **down** keys. When desired menu is displayed, press **SET** to enter the menu.



SEt Adjust cooling setpoint



OHr Displays the hours of operation



ALM Displays the list of current alarms



HiS Displays the alarms history



PAr Allows device parameters to be edited



nFo Displays device information



PSS to enter passwords for authorized user access



CoL to start testing sequence

5. Enabling and disabling the evaporator fan management feature



Step 1: Press and hold **SET** until **SEt** appears



Step 2: Press **down** until **PAr** appears



Step 3: Press **SET**, **PG** will appear



Step 4: Press **down** until **PP** appears



Step 5: Press **SET**, **P01** will appear



Step 6: Press **SET**, number displayed is minutes evaporator fan alternating on/off in non-cooling



Step 7: 15 minutes is default, management feature is **ON**



Step 8: Set time to 0 to turn OFF. Press **SET** to save setting. Evaporator fan will run continuously



Step 9:  Icon shows feature is active



Step 10: No icon, feature is not active

6. Switching display from Celsius to Fahrenheit/Fahrenheit to Celsius



Step 1: Press and hold **SET** until **SEt** appears



Step 2: Press **down** until **PAr** appears



Step 3: Press **SET**, **PG** will appear



Step 4: Press **SET**, **G01** will appear



Step 5: Press **Down** until G07 appears



Step 6: Press **SET**



Step 7a: **0** = Celsius, press **SET** to confirm



Step 7b: **1** = Fahrenheit, press **SET** to confirm

REMOTE ACCESS

7. Running web interface

Connect hardware:

Connect RJ45 cable to Ethernet port on the Gateway and to computer (or to router) Power NXT40B0E1U01500Unit

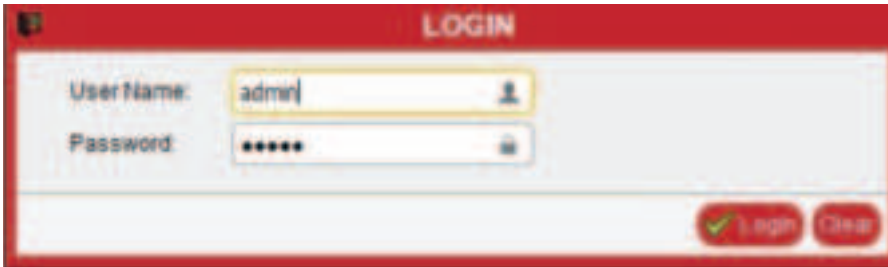
Get Gateway's IP address

Tap the Gateway screen to wake it. **MAIN MENU** appears.

Tap **NETWORK** to view **Net Config** with Gateway's IPv4 and IPv6 addresses.

Connecting with web interface

Open a web browser and enter the Gateway IP address. The login box appears:



Enter username and password, then click Login.

Username: admin

Password: admin

Web interface screen appears:

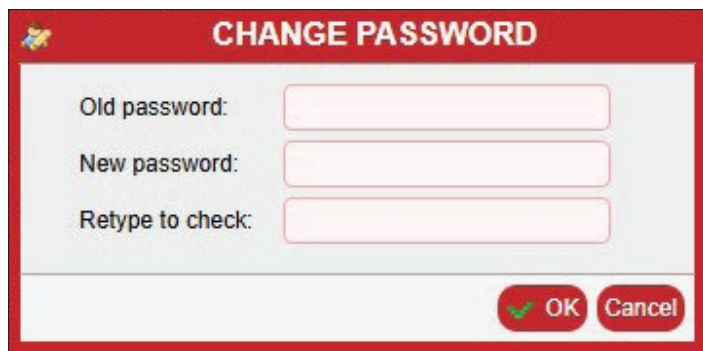


RD	Resource Name	Number	Name	Type	Value	State	LCr	UM	LMH	UMH	UM	UC
				All								
	0	Managed Sensor	1	Evaporator Pt. Temperature	74.6 °F		-88.0	-88.0	-88.0	248.0	248.0	1
	0	Managed Sensor	2	Ambient Probe Temperature	140.7 °F		-88.0	-88.0	-88.0	248.0	248.0	1
	2000	TX-4801-B	1	Condenser Pt. Temperature	77.5 °F		-88.0	-88.0	-88.0	248.0	248.0	1
	2000	TX-4801-B	2	Evaporator Pt. Temperature	74.6 °F		-88.0	-88.0	-88.0	248.0	248.0	1
	2000	TX-4801-B	3	Ambient Probe Temperature	140.7 °F		-88.0	-88.0	-88.0	248.0	248.0	1
	2000	TX-4801-B	4	Cooling Media Temperature	89 °F		45	45	45	113	113	
	2000	TX-4801-B	5	Cooling Media Temperature	3.9 °F		0.0	0.0	0.0	88.0	88.0	1
	2000	TX-4801-B	6	Abts High Temp. Temperature	95 °F		-50	-50	-50	100	100	
	2000	TX-4801-B	7	Abts Low Temp. Temperature	4 °F		-50	-50	-50	100	100	
	2000	TX-4801-B	8	Rel High/Low I Temperature	0.9 °F		0.0	0.0	0.0	50.0	50.0	1
	2000	TX-4801-B	9	Unit Status: Other Units-based Sensor	0		N/A	N/A	N/A	1	N/A	1
	2000	TX-4801-B	10	Filter Warning: Other Units-based Sensor	20 h							
	2000	TX-4801-B	11	Measurement Unit/Degree_C/F	77°F/1							

To change the password, go to **USER MANAGEMENT** (top left), then **Change Password**. Enter new password, then click **OK**.

8. Changing password

Go to **USER MANAGEMENT**, then **Change Password**. The **CHANGE PASSWORD** screen appears:

The image shows a web interface titled "CHANGE PASSWORD" with a red header bar. Below the header, there are three input fields labeled "Old password:", "New password:", and "Retype to check:". At the bottom right, there are two buttons: "OK" with a green checkmark icon and "Cancel".

Enter old and new passwords, then click **OK** to save the new password.

9. Changing IP address

Click **DEVICE SETTINGS**, then **Network**, then **IPv4 Settings**. The IPV4 SETTINGS screen appears:

The image shows a web interface titled "IPV4 SETTINGS" with a red header bar. Below the header, there is a toggle switch labeled "Enabled" which is currently turned on. Underneath, there is a section for "Address Assignment" with a dropdown menu showing "DHCP". Below this, there are two input fields: "IP Address" with the value "192.168.1.115/24" and "Gateway" with the value "192.168.1.1". At the bottom, there is a section titled "REJECTED DHCP SERVERS" with a red header bar and two buttons: "Add" and "Remove". At the very bottom right, there are two buttons: "OK" with a green checkmark icon and "Cancel".

Click **Address Assignment** to choose DHCP or STATIC.

DHCP:

1. Unit gets its IP address from a DHCP server.
2. The IP in the **IP Address** textbox is the previous address.

STATIC:

3. Enter unit's IP address in the **IP Address** textbox.
4. Unit will use this IP.

Click **OK** to save IP settings to unit.

10. Viewing sensors (read-only) parameters

The **Sensors** tab shows all sensor parameters and their information, and always appears in the web interface:



The screenshot shows the nVent web interface with a table of sensor parameters. The table has columns for ID, Name, Type, Value, and Units. The rows list various sensors such as '1. Temperature Sensor', '2. Humidity Sensor', '3. Air Flow Sensor', etc. The interface includes a sidebar with a tree view and a top navigation bar.

ID	Name	Type	Value	Units
1001	Temperature Sensor	Temperature	20.1	°C
1002	Humidity Sensor	Humidity	60.0	%
1003	Air Flow Sensor	Air Flow	100.0	m³/h
1004	Pressure Sensor	Pressure	1.0	bar
1005	CO2 Sensor	CO2	400.0	ppm
1006	Light Sensor	Light	100.0	lux
1007	Sound Sensor	Sound	100.0	dB
1008	Vibration Sensor	Vibration	100.0	mm/s²
1009	Proximity Sensor	Proximity	100.0	cm
1010	Door Sensor	Door	100.0	°
1011	Water Level Sensor	Water Level	100.0	cm
1012	Gas Sensor	Gas	100.0	ppm
1013	Smoke Sensor	Smoke	100.0	ppm
1014	Fire Sensor	Fire	100.0	ppm
1015	Shock Sensor	Shock	100.0	g
1016	Impact Sensor	Impact	100.0	g
1017	Strain Sensor	Strain	100.0	µε
1018	Displacement Sensor	Displacement	100.0	mm

The web interface always shows an **EXPLORER** panel with the unit tree (TX-i40/1.6). The tree has **Controls** and **Sensors** branches. The **Sensors** branch has read-only parameters. Expand it to see the parameters. Clicking a parameter opens a tab with its information.

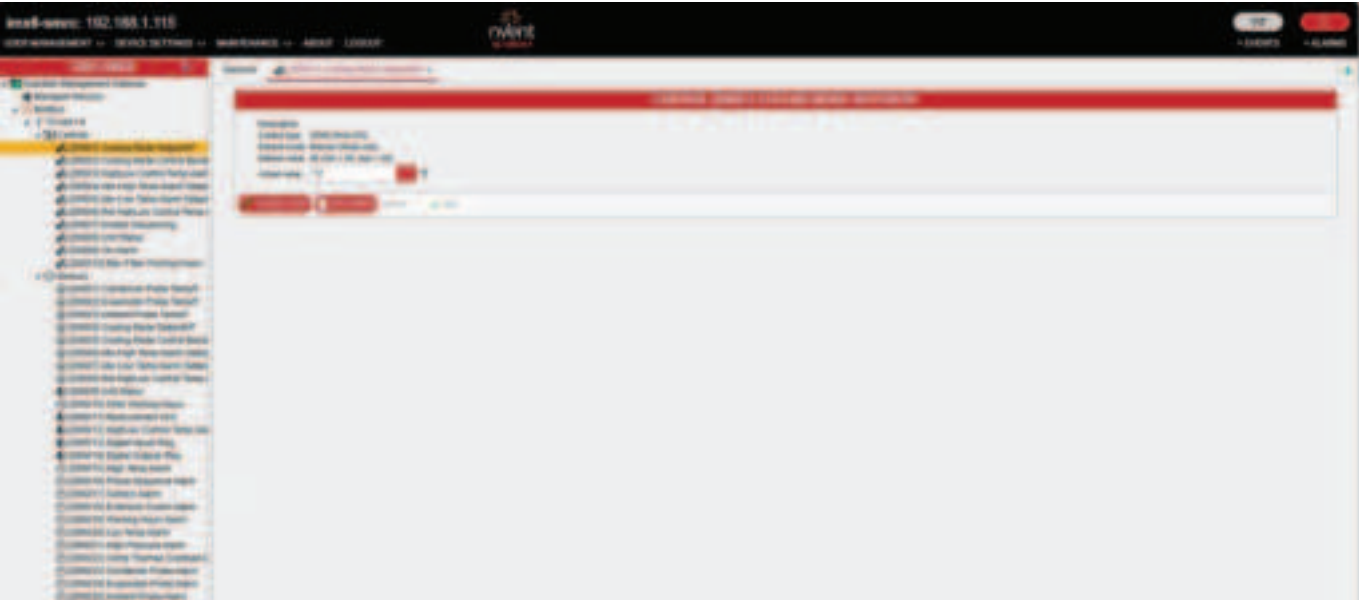


The screenshot shows the nVent web interface with a detailed view of a sensor parameter. The interface includes a sidebar with a tree view, a main content area with a large gauge and a table of parameters, and a right sidebar with a table of sensor data. The main content area shows a gauge for 'Temperature' and a table of parameters for 'Temperature Sensor'.

Parameter	Value	Units
Temperature	20.1	°C
Humidity	60.0	%
Air Flow	100.0	m³/h
Pressure	1.0	bar
CO2	400.0	ppm
Light	100.0	lux
Sound	100.0	dB
Vibration	100.0	mm/s²
Proximity	100.0	cm
Door	100.0	°
Water Level	100.0	cm
Gas	100.0	ppm
Smoke	100.0	ppm
Fire	100.0	ppm
Shock	100.0	g
Impact	100.0	g
Strain	100.0	µε
Displacement	100.0	mm

11. Changing setpoint (read-write) parameters

Expand the **Controls** branch on the **EXPLORER** panel. The **Controls** branch has read-write parameters. Clicking a parameter opens a tab where the parameter value can be changed. To save changes, click **Set**.



12. Viewing alarms

Click **ALARMS** (top right) to view collected alarms. The ALARM TABLE screen appears:

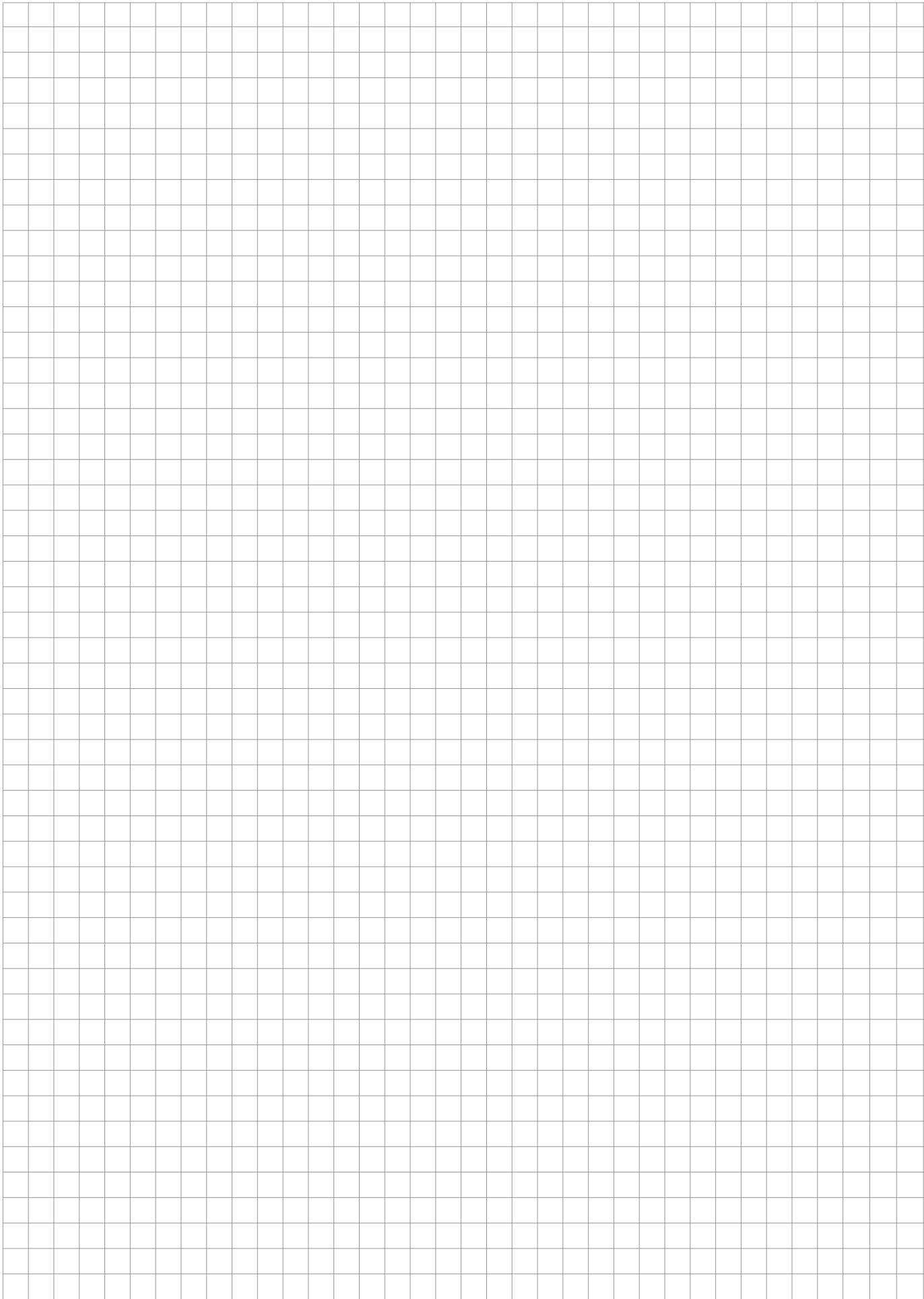
The screenshot shows the 'ALARM TABLE' window. It has a checkbox for 'Show unacknowledged alarms only'. Below is a table with 7 columns: ID, Date Time, Severity, Type, Ack, Resource ID, Sensor Name, and Event state. The table contains 7 rows of alarm data.

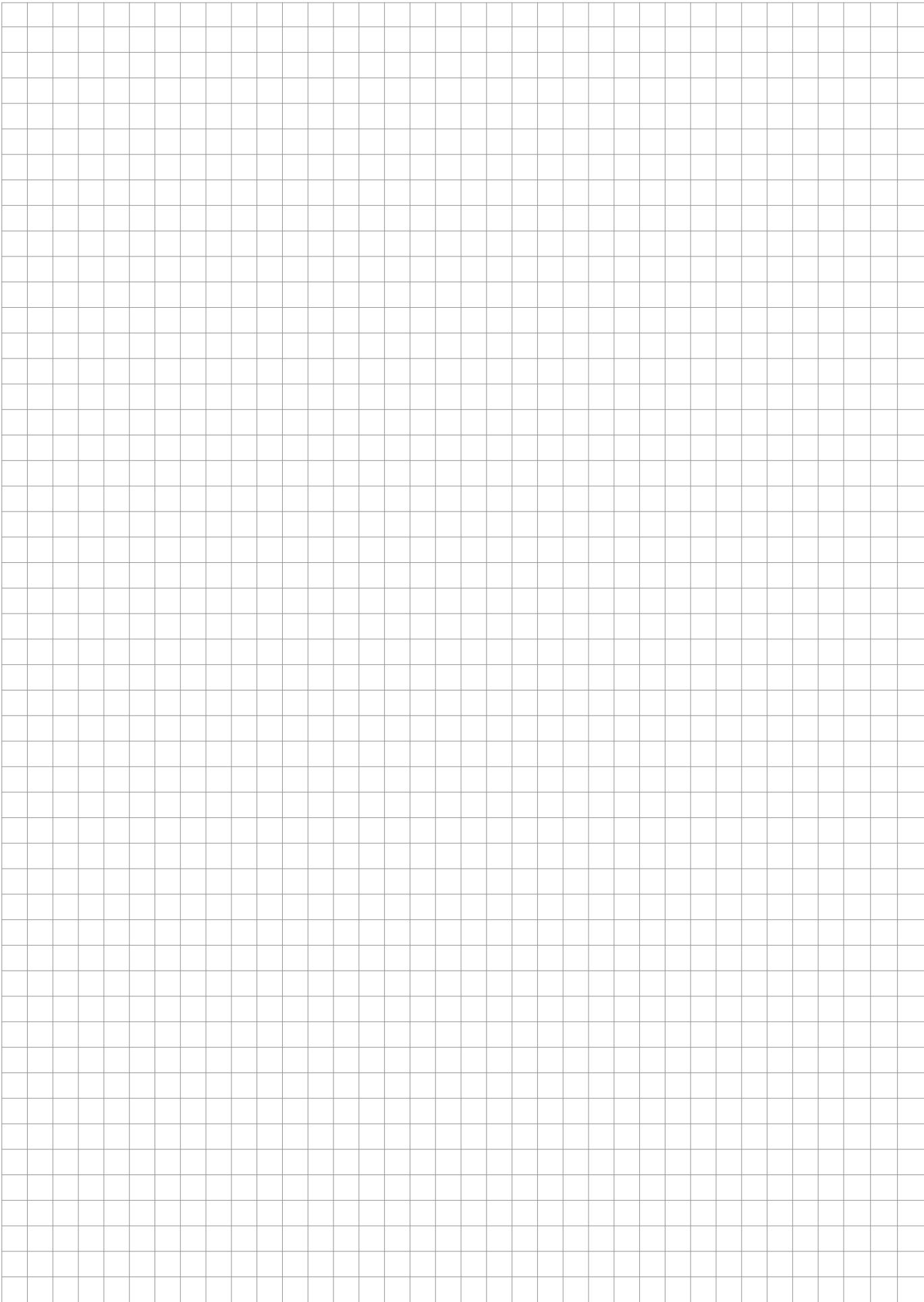
ID	Date Time	Severity	Type	Ack	Resource ID	Sensor Name	Event state
4	2025-03-07 14:1	CRITICAL	SENSC no		(2000) TX-401/1-6	11 Measurement I FIPSt	
5	2025-03-07 14:1	CRITICAL	SENSC no		(2000) TX-401/1-6	12 HighLow Contr Absolute	
6	2025-03-07 14:1	MAJOR	SENSC no		(2000) TX-401/1-6	13 Digital Inputs R Condenser I	
7	2025-03-07 14:1	MAJOR	SENSC no		(2000) TX-401/1-6	13 Digital Inputs R Evaporator I	
8	2025-03-07 14:1	MAJOR	SENSC no		(2000) TX-401/1-6	13 Digital Inputs R Phase Seqs	
10	2025-03-07 15:1	MAJOR	SENSC no		(2000) TX-401/1-6	14 Digital Outputs General Ala	
11	2025-03-07 15:1	MAJOR	SENSC no		(2000) TX-401/1-6	17 Generic Alarm ON	

13. Viewing events

To view events collected by the unit, click **EVENTS** (top right). The **SYSTEM EVENT LOG** screen appears:

SYSTEM EVENT LOG					
ID	Log time	Event time	Resource ID	Severity	Description
107	2025-03-07 18:00:14	2025-03-07 18:00:14		INFO/Normal/Normal	USER LOGIN: admin: logged in from 192.168.1.11
108	2025-03-07 18:01:10	2025-03-07 18:01:10		INFO/Normal/Normal	USER LOGIN: admin: logged out from 192.168.1.11
109	2025-03-07 18:01:50	2025-03-07 18:01:50		INFO/Normal/Normal	USER LOGIN: admin: logged in from 192.168.1.11
110	2025-03-07 18:02:10	2025-03-07 18:02:10		INFO/Normal/Normal	USER LOGIN: admin: logged out from 192.168.1.11
111	2025-03-07 18:02:23	2025-03-07 18:02:23		INFO/Normal/Normal	USER LOGIN: admin: logged out from 192.168.1.11
112	2025-03-07 18:03:40	2025-03-07 18:03:40		INFO/Normal/Normal	USER LOGIN: admin: logged in from 192.168.1.11
113	2025-03-07 17:52:51	2025-03-07 17:52:51		INFO/Normal/Normal	USER LOGIN: admin: logged out from 192.168.1.11
114	2025-03-07 17:57:33	2025-03-07 17:57:33		INFO/Normal/Normal	USER LOGIN: admin: logged in from 192.168.1.11
115	2025-03-07 15:49:42	2025-03-07 15:49:42		INFO/Normal/Normal	USER LOGIN: admin: logged out from 192.168.1.11
116	2025-03-07 16:22:57	2025-03-07 16:22:57		INFO/Normal/Normal	USER LOGIN: admin: logged in from 192.168.1.11
117	2025-03-07 16:22:41	2025-03-07 16:22:41	(2000) 79-4407-6	CRITICAL	Sensor #4 "Cooling Water Reservoir" Type: Temperature, State: Leaving, Critical
118	2025-03-07 16:22:41	2025-03-07 16:22:41	(2000) 79-4407-6	MAJOR	Sensor #4 "Cooling Water Reservoir" Type: Temperature, State: Leaving, Critical
119	2025-03-07 16:22:47	2025-03-07 16:22:47	(2000) 79-4407-6	MINOR	Sensor #4 "Cooling Water Reservoir" Type: Temperature, State: Leaving, Critical
120	2025-03-07 16:22:30	2025-03-07 16:22:30	(2000) 79-4407-6	MAJOR	Sensor #2 "High Pressure Alarm" Type: Platform Alert, State: Leaving, OK
121	2025-03-07 16:21:40	2025-03-07 16:21:40		INFO/Normal/Normal	USER PARAMETER CHANGE: admin: parameters changed
122	2025-03-07 16:21:20	2025-03-07 16:21:20		INFO/Normal/Normal	USER PARAMETER CHANGE: admin: parameters changed
123	2025-03-07 16:16:23	2025-03-07 16:16:23	(2000) 79-4407-6	MAJOR	Sensor #2 "High Pressure Alarm" Type: Platform Alert, State: Entering, OK
124	2025-03-07 16:16:23	2025-03-07 16:16:23	(2000) 79-4407-6	MAJOR	Sensor #17 "General Alarm" Type: Platform Alert, State: Entering, OK
125	2025-03-07 16:16:23	2025-03-07 16:16:23	(2000) 79-4407-6	MAJOR	Sensor #14 "Digital Input High" Type: Digital Input/Output, State: Entering, General Alarm
126	2025-03-07 16:13:40	2025-03-07 16:13:40		INFO/Normal/Normal	USER LOGIN: admin: logged in from 192.168.1.11





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