

nVent Air Conditioner NXT40B0E1U01500

Quick Start Guide

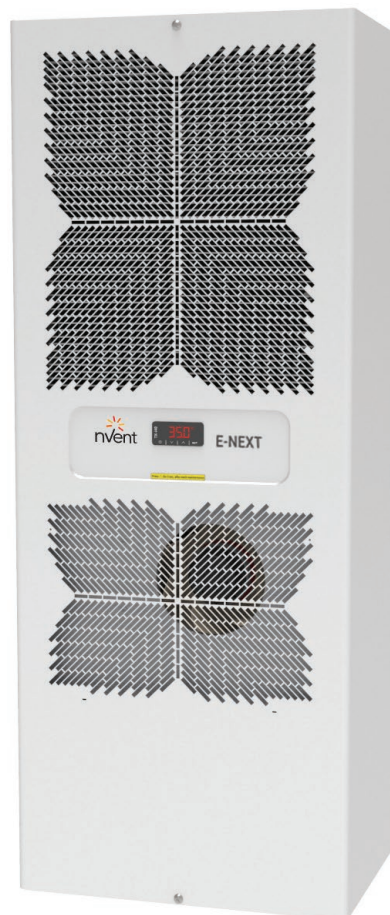


TABLE OF CONTENTS

Controller 3

1. Controller key functions 3

2. Controller icon descriptions 4

3. Changing cooling setpoint 5

4. Accessing main menu 5

5. Enabling and disabling the evaporator fan management feature 7

6. Switching display from Celsius to Fahrenheit/Fahrenheit to Celsius 8

Remote access 9

7. Running web interface 9

8. Changing password 10

9. Changing IP address 10

10. Viewing sensors (read-only) parameters 11

11. Changing setpoint (read-write) parameters 12

12. Viewing alarms 12

13. Viewing events 13

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	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



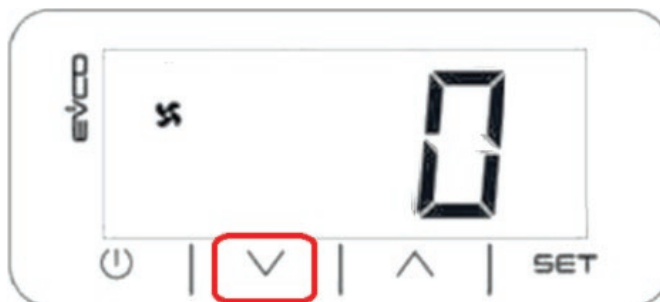
Step 5: Press **SET**, **P01** will appear



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

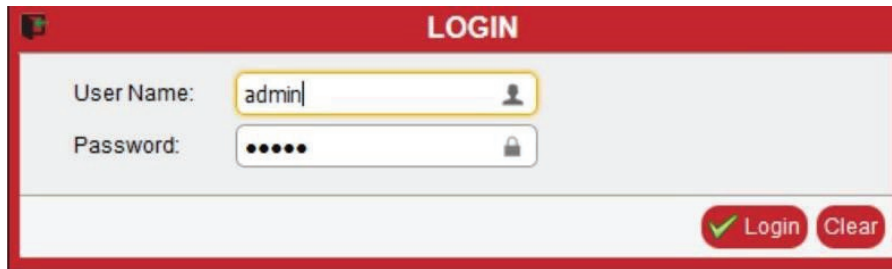
Get Gateway's IP address

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:

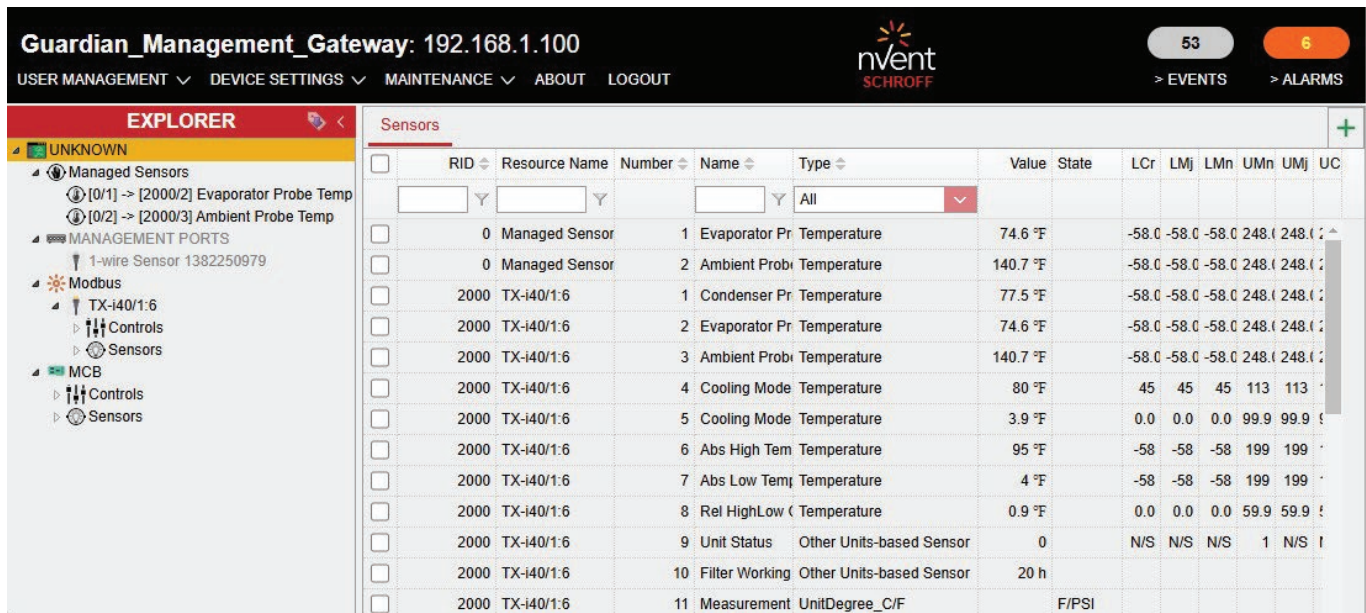


Enter username and password, then click Login.

Username: admin

Password: admin

Web interface screen appears:

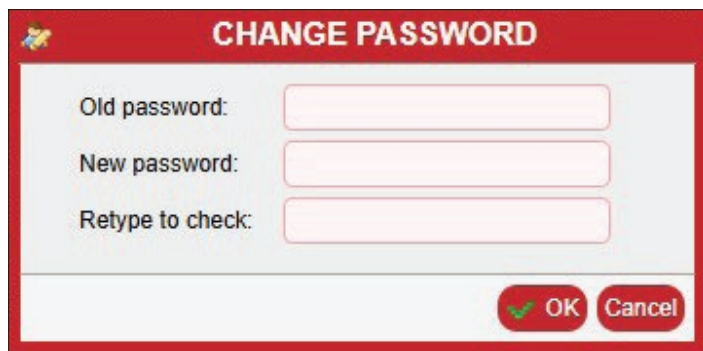


	RID	Resource Name	Number	Name	Type	Value	State	LCr	LMj	LMn	UMn	UMj	UC
☐					All								
☐	0	Managed Sensor	1	Evaporator Pr	Temperature	74.6 °F		-58.0	-58.0	-58.0	248.1	248.1	
☐	0	Managed Sensor	2	Ambient Probi	Temperature	140.7 °F		-58.0	-58.0	-58.0	248.1	248.1	
☐	2000	TX-i40/1:6	1	Condenser Pr	Temperature	77.5 °F		-58.0	-58.0	-58.0	248.1	248.1	
☐	2000	TX-i40/1:6	2	Evaporator Pr	Temperature	74.6 °F		-58.0	-58.0	-58.0	248.1	248.1	
☐	2000	TX-i40/1:6	3	Ambient Probi	Temperature	140.7 °F		-58.0	-58.0	-58.0	248.1	248.1	
☐	2000	TX-i40/1:6	4	Cooling Mode	Temperature	80 °F		45	45	45	113	113	
☐	2000	TX-i40/1:6	5	Cooling Mode	Temperature	3.9 °F		0.0	0.0	0.0	99.9	99.9	
☐	2000	TX-i40/1:6	6	Abs High Tem	Temperature	95 °F		-58	-58	-58	199	199	
☐	2000	TX-i40/1:6	7	Abs Low Tem	Temperature	4 °F		-58	-58	-58	199	199	
☐	2000	TX-i40/1:6	8	Rel HighLow	Temperature	0.9 °F		0.0	0.0	0.0	59.9	59.9	
☐	2000	TX-i40/1:6	9	Unit Status	Other Units-based Sensor	0		N/S	N/S	N/S	1	N/S	
☐	2000	TX-i40/1:6	10	Filter Working	Other Units-based Sensor	20 h							
☐	2000	TX-i40/1:6	11	Measurement	UnitDegree_C/F		F/PSI						

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 'CHANGE PASSWORD' dialog box with a red header. It contains three input fields: '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 an 'IPV4 SETTINGS' dialog box with a red header. At the top right is an 'Enabled' toggle switch. Below it, 'Address Assignment:' has a dropdown menu currently set to 'DHCP'. Below that are two text boxes: 'IP Address:' containing '192.168.1.115/24' and 'Gateway:' containing '192.168.1.1'. A section titled 'REJECTED DHCP SERVERS' contains '+ Add' and '- Remove' buttons. At the bottom right are 'OK' and 'Cancel' buttons.

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:

RID	Resource Name	Number	Name	Type	Value	State	LCr	LMj	LMn	UMn	UMj	UCj
2000	TX-i40/1.6	1	Condenser Probe Temp/F	Temperature	51.7 °F		-58.0	-58.0	-58.0	248.0	248.0	248.0
2000	TX-i40/1.6	2	Evaporator Probe Temp/F	Temperature	82.2 °F		-58.0	-58.0	-58.0	248.0	248.0	248.0
2000	TX-i40/1.6	3	Ambient Probe Temp/F	Temperature	7.5 °F		-58.0	-58.0	-58.0	248.0	248.0	248.0
2000	TX-i40/1.6	4	Cooling Mode Setpoint/F	Temperature	72 °F		68	68	68	86	86	8
2000	TX-i40/1.6	5	Cooling Mode Control Band/F	Temperature	2.0 °F		0.0	0.0	0.0	99.9	99.9	99.9
2000	TX-i40/1.6	6	Abs High Temp Alarm Setpoint CM/F	Temperature	123 °F		-58	-58	-58	199	199	19
2000	TX-i40/1.6	7	Abs Low Temp Alarm Setpoint CM/F	Temperature	42 °F		-58	-58	-58	199	199	19
2000	TX-i40/1.6	8	Rel High/Low Control Temp Alarm Diff/F	Temperature	2.0 °F		0.0	0.0	0.0	59.9	59.9	59.9
2000	TX-i40/1.6	9	Unit Status	Not assigned	0		N/S	N/S	N/S	0	N/S	N/S
2000	TX-i40/1.6	10	Filter Working Hours	Other Units-based Sensor	220 h							
2000	TX-i40/1.6	11	Measurement Unit	UnitDegree_C/F	F/PSI							
2000	TX-i40/1.6	12	High/Low Control Temp Alarm Mode	High/Low_Alarm_Mode	Absolute							
2000	TX-i40/1.6	13	Digital Inputs Reg	DigitalInputValues	MULTI STATE							
2000	TX-i40/1.6	14	Digital Outputs Reg	DigitalOutputValues	General Alarm Status							
2000	TX-i40/1.6	15	High Temp Alarm	Platform Alert	OFF							
2000	TX-i40/1.6	16	Phase Sequence Alarm	Platform Alert	OFF							
2000	TX-i40/1.6	17	Generic Alarm	Platform Alert	ON							
2000	TX-i40/1.6	18	Extension Comm Alarm	Platform Alert	OFF							

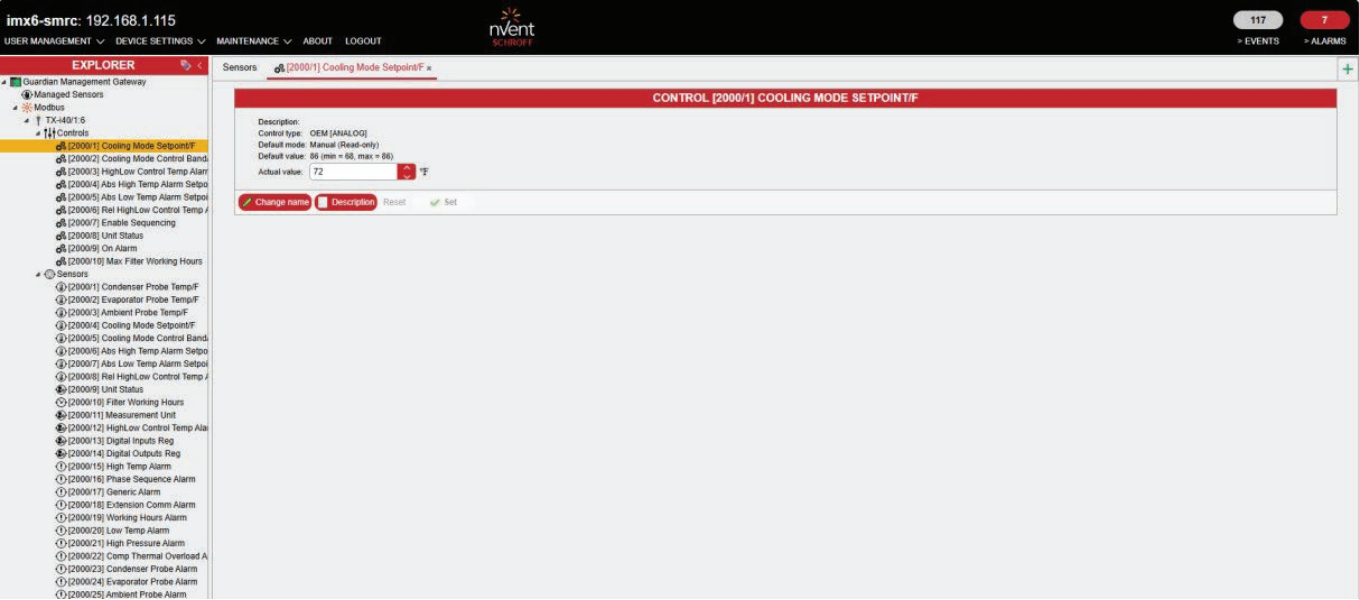
The web interface always shows an **EXPLORER** panel with the unit tree (TX-i40/1.6). The tree has **Controls** and **Sensors** branches.

The **Sensors** branch has read-only parameters. Expand it to see the parameters. Clicking a parameter opens a tab with its information.

Threshold	Supported	Assertion	Deassertion	Value	Delay
UPPER CRITICAL	+	+	+	248.0	0
UPPER MAJOR	+	+	+	248.0	0
UPPER MINOR	+	+	+	248.0	0
LOWER MINOR	+	+	+	-58.0	0
LOWER MAJOR	+	+	+	-58.0	0
LOWER CRITICAL	+	+	+	-58.0	0

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:

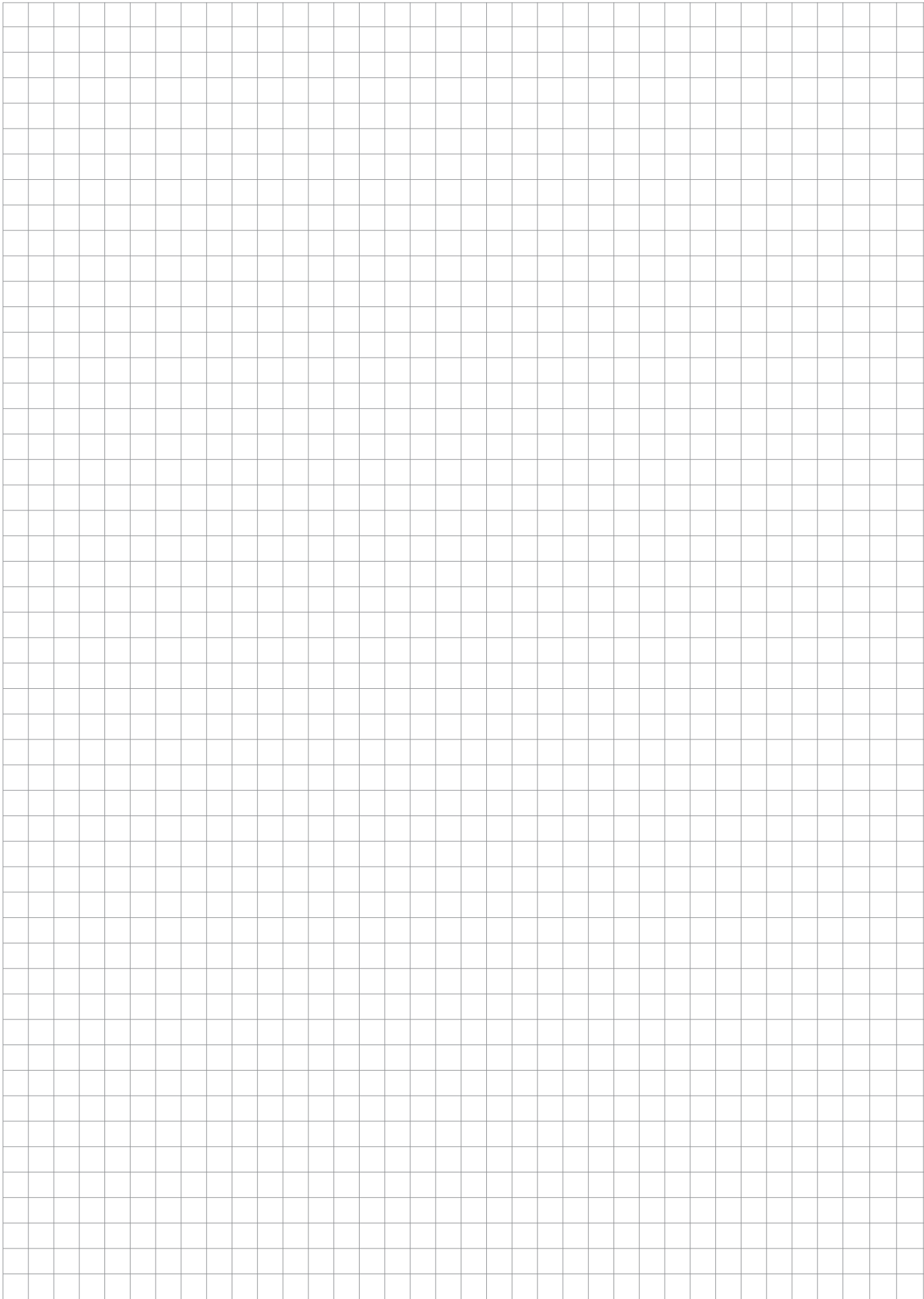
ALARM TABLE								
☐ Show unacknowledged alarms only								
ID	Date Time	Severity	Type	Ack	Resource ID	Sensor	Name	Event state
4	2025-03-07 14:1	CRITICAL	SENSC	no	(2000) TX-i40/1:6	11	Measurement U F/PSI	
5	2025-03-07 14:1	CRITICAL	SENSC	no	(2000) TX-i40/1:6	12	HighLow Contr Absolute	
6	2025-03-07 14:1	MAJOR	SENSC	no	(2000) TX-i40/1:6	13	Digital Inputs R Condenser I	
7	2025-03-07 14:1	MAJOR	SENSC	no	(2000) TX-i40/1:6	13	Digital Inputs R Evaporator I	
8	2025-03-07 14:1	MAJOR	SENSC	no	(2000) TX-i40/1:6	13	Digital Inputs R Phase Sequ	
10	2025-03-07 15:1	MAJOR	SENSC	no	(2000) TX-i40/1:6	14	Digital Outputs General Ala	
11	2025-03-07 15:1	MAJOR	SENSC	no	(2000) TX-i40/1:6	17	Generic Alarm	ON

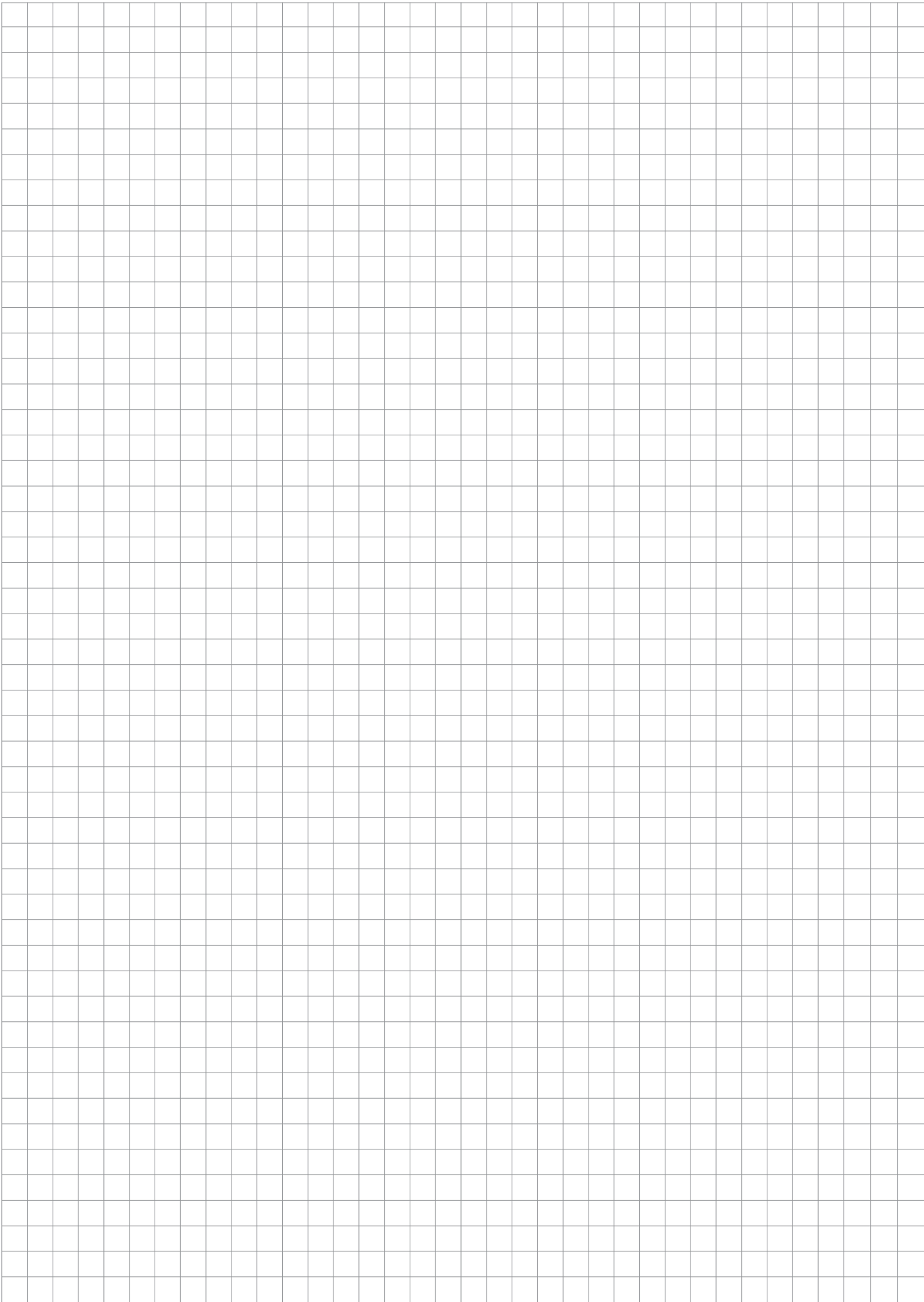
☒ Acknowledge ☐ Remove

13. Viewing events

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

SYSTEM EVENT LOG						
EID	Log time	Event time	Resource ID	Severity	Description	
117	2025-03-07 19:04:14	2025-03-07 19:04:14		INFORMATIONAL	USER LOGIN: admin: logged in from 192.168.1.11	
116	2025-03-07 19:01:15	2025-03-07 19:01:15		INFORMATIONAL	USER LOGOUT: admin: logged out from 192.168.1.11	
115	2025-03-07 18:37:58	2025-03-07 18:37:58		INFORMATIONAL	USER LOGIN: admin: logged in from 192.168.1.11	
114	2025-03-07 18:36:19	2025-03-07 18:36:19		INFORMATIONAL	USER LOGIN: admin: logged in from 192.168.1.11	
113	2025-03-07 18:32:23	2025-03-07 18:32:23		INFORMATIONAL	USER LOGOUT: admin: logged out from 192.168.1.11	
112	2025-03-07 18:06:40	2025-03-07 18:06:40		INFORMATIONAL	USER LOGIN: admin: logged in from 192.168.1.11	
111	2025-03-07 17:52:51	2025-03-07 17:52:51		INFORMATIONAL	USER LOGOUT: admin: logged out from 192.168.1.11	
110	2025-03-07 17:17:33	2025-03-07 17:17:33		INFORMATIONAL	USER LOGIN: admin: logged in from 192.168.1.11	
109	2025-03-07 15:49:42	2025-03-07 15:49:42		INFORMATIONAL	USER LOGOUT: admin: logged out from 192.168.1.11	
108	2025-03-07 15:22:57	2025-03-07 15:22:57		INFORMATIONAL	USER LOGIN: admin: logged in from 192.168.1.11	
107	2025-03-07 15:22:41	2025-03-07 15:22:41	(2000) TX-40/I:6	CRITICAL	Sensor #4 "Cooling Mode Setpoint/F": Type: Temperature, State: Leaving LOWER CRITICAL	
106	2025-03-07 15:22:41	2025-03-07 15:22:41	(2000) TX-40/I:6	MAJOR	Sensor #4 "Cooling Mode Setpoint/F": Type: Temperature, State: Leaving LOWER MAJOR	
105	2025-03-07 15:22:41	2025-03-07 15:22:41	(2000) TX-40/I:6	MINOR	Sensor #4 "Cooling Mode Setpoint/F": Type: Temperature, State: Leaving LOWER MINOR	
104	2025-03-07 15:22:38	2025-03-07 15:22:38	(2000) TX-40/I:6	MAJOR	Sensor #21 "High Pressure Alarm": Type: Platform Alert, State: Leaving ON	
103	2025-03-07 15:21:40	2025-03-07 15:21:40		INFORMATIONAL	USER PARAMETERS CHANGE: admin: parameters changed	
102	2025-03-07 15:21:02	2025-03-07 15:21:02		INFORMATIONAL	USER PARAMETERS CHANGE: admin: parameters changed	
101	2025-03-07 15:16:23	2025-03-07 15:16:23	(2000) TX-40/I:6	MAJOR	Sensor #21 "High Pressure Alarm": Type: Platform Alert, State: Entering ON	
100	2025-03-07 15:16:23	2025-03-07 15:16:23	(2000) TX-40/I:6	MAJOR	Sensor #17 "Generic Alarm": Type: Platform Alert, State: Entering ON	
99	2025-03-07 15:16:23	2025-03-07 15:16:23	(2000) TX-40/I:6	MAJOR	Sensor #14 "Digital Outputs Reg": Type: DigitalOutputValues, State: Entering General Alarm Status	
98	2025-03-07 15:13:46	2025-03-07 15:13:46		INFORMATIONAL	USER LOGIN: admin: logged in from 192.168.1.11	





North America

Tel 763.422.2211
service@nVent.com

Europe

Tel +39.0376.554511
texa.service@nVent.com



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN ILSCO SCHROFF TRACHTE