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Instructions for Use

New Brunswick™ TCA-3 Temperature Monitoring System

Step 1: Mount the Monitor Unit

> The TCA-3 monitor can be mounted using the Velcro supplied.
> Make sure to place the monitor such that the End Plate (with the LEDs) is visible.

Step 2: Insert the Probe

> Mount the probe into the freezer through the access port on the top.
> Secure the probe next to the internal freezer probe with a cable tie.
> Note: Temperature is not the same everywhere within freezers and refrigerators. Location of the probe will affect the reading.

Step 3: Connect the Probes to the Monitor

> Slide open the access door at the bottom of the TCA-3 monitor.
> Check to be sure that the probe wires are firmly connected to the probe connection block.
> If any of the probe wires have been disconnected, consult the TCA-3 User Manual for information on how to reconnect the probes.

Step 4: Connect the Power Supply

> Remove the TCA-3 from the refrigerator/freezer by separating the Velcro.
> Choose Standard Power Supply or Power Over Ethernet instructions as follows:

Standard Power Supply:

> Connect the TCA-3 Unit to the Power Injector by inserting one end of Ethernet cable into the port on rear of TCA-3 Unit and the other end into the 'OUT' port of the Power Injector.
> Next, insert the second Ethernet cable into the 'IN' port of the Power Injector and connect the other end of the cable to a LAN port.
> Plug the Power Injector into 100-240 V AC mains using the power cord supplied.

Power Over Ethernet:

> For Power-Over-Ethernet LANs, no Power Injector is necessary.
> Connect the TCA-3 directly into the network which supports POE.
> Slide open the access door on the bottom of the TCA-3 Unit.
> Slide the On-Off switch to the On position.

Step 5: Verify Power and Connection

> Check communication by observing the LEDs on the end panel of the TCA-3 Unit (page 4) while transmitting.
> If using POE and the LAN LNK light is intermittent or goes out entirely, then the power draw from the TCA exceeds the rating of the POE switch. In this case, use the Power Injector to power the TCA-3 unit, and disable POE at the port where the TCA-3 is connected.
> If LAN LNK light is steady and the connection fails, consult the troubleshooting guide at http://eppendorf.com/TCAstartup.
> If connection is successful, log onto secure account via: http://eppendorf.com/TCAstartup. Click on the box labeled Customer Login.

> Use the MAC ID number (unit side) to access secure online account.
> The default login name and password are both “Admin” (case-sensitive).
> Changing login and password after first login is recommended.
> Use the online account to view data and to set alarms.
> In the event that a Monitor loses connection with the system, up to 256 data points can be stored in the Monitor. When the Monitor regains connection to the network the data will be sent to online account.

1. TCA-3 Unit Name: Individual units are named using the Preference icon (see 7). The default name is the device’s MAC ID number.

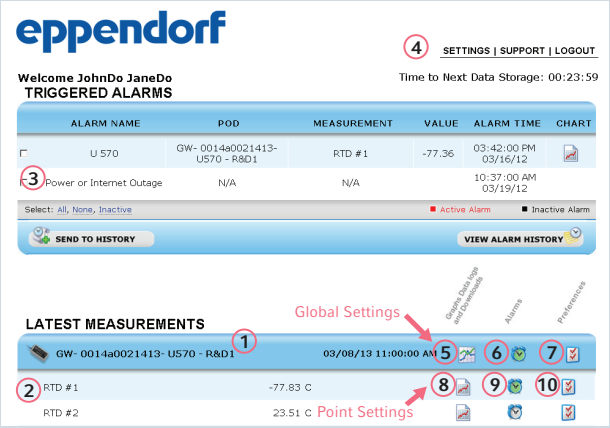
2. Measurements: Measurements shown in the window are the latest data collected by the TCA-3 units.

3. Manage and View Alarm History: Triggered alarms are showed here. Once the condition has been resolved, the event can be sent to history by clicking.

4. Settings: Click to change account settings, such as login and password information or default alarm contact information.

Global (System) Settings:
5. Multi-Point Graph View: Click to select multiple monitoring points for graphing.

6. Alarm Settings: Click to set system alarm conditions (applying to all points) that send notifications via email, phone, or text when power or internet outages occur.



7. Preferences: TCA-3 unit preferences such as the display name and measurement interval can be personalized using the button.

Individual Point Settings:
8. Graph or Table View: Click to show a graph and table of most recent data.

9. Alarm Settings: Click to set alarm conditions that send notifications via email, phone, or text when data deviates from customized ranges.

10. Preferences: Click to personalize preferences such as the display name and measurement units for the monitoring point.

Special Notes

Visit http://eppendorf.com/support or contact your local distributor for assistance with the following conditions:

> If you are adding a phone number to the Alarm Contact List, and the desired country is not available on the dropdown list.

> If you have Multiple TCA-3 accounts and wish to view all your data at once, we can join all your TCA-3 units for viewing under a single master account.

LED Guide

> To save power, the internal battery goes down during shipment; please disregard initial “Internal Battery Low Voltage” alarm.

CONN: Flashing blue when communicating to server. Solid blue when last communication is successful.

PWR: Solid green when the 5 V power supply is working, Fast Green Flash when on battery power, Slow Green Flash when battery is low (4 hour life left).

LAN LNK: Solid green when the LAN hardware connection is good.

LAN ACT: Flashing green when communicating to LAN

Manuals complete with more advanced functions and additional details are available at:
www.eppendorf.com/TCAstartup

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