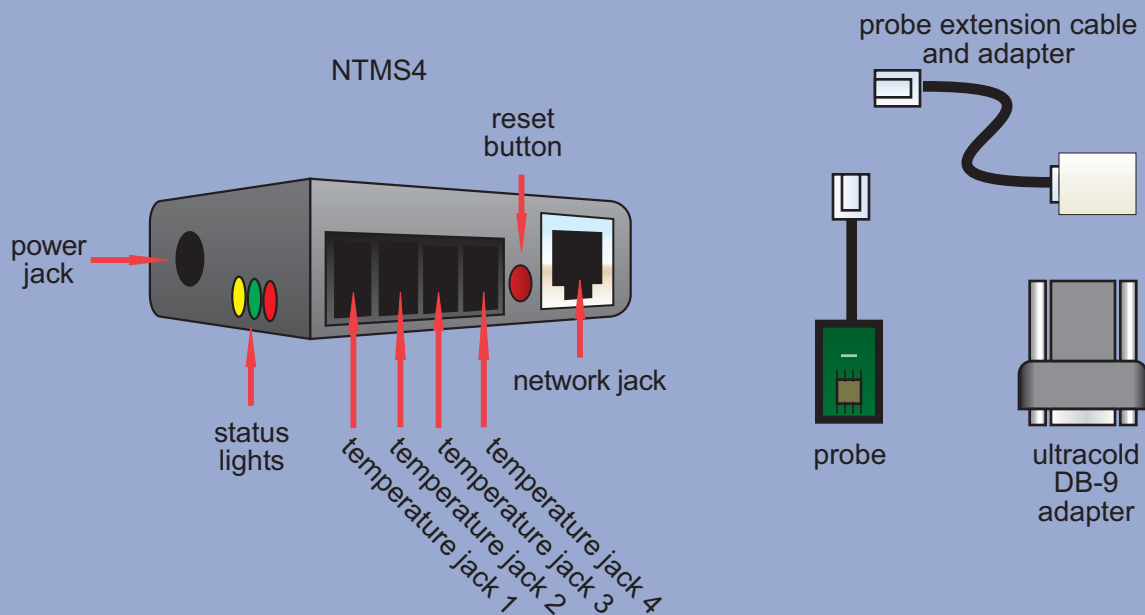


A Quick Connect Guide

DOCUMENT # Tempurity 1-05-0021.4

Overview of Connection to Tempurity

1. Set the NTMS hardware to work with your network.
2. Connect the NTMS to the temperature devices to be monitored.
3. Specify the network addresses for temperature collection and set the allowed range and time thresholds.
4. View temperatures and define alarm notification groups.



All necessary software can be acquired from:

www.networkedrobotics.com/download
for:

NTMS Configuration Wizard
Tempurity Monitor Application

www.networkedrobotics.com/serverdownload
for:

Tempurity Server Config Utility

Package Contents

- NTMS4
- NTMS4 Power adapter

Optional

- Networked Robotics Temperature Probes
- Ultracold DB-9 Adapter
- Crossover Cable
- CAT5 patch cable
- Extension cable and adapter

1

Set the NTMS hardware to work with your network.

To use the NTMS for temperature collection you must first configure it for use on your network. You will use the NTMS Configuration Wizard for this task. The Wizard will search for any NTMS hardware on your subnet or local area network, list them, and allow you to set network and monitored device types.

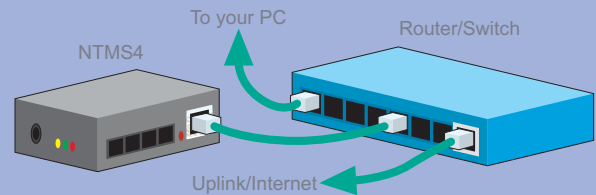
A The standard packaging includes a network cable. Plug one end into the ethernet port of the NTMS4, and the other into an active network port on the local area network. This could be a network wall jack at the monitored site, or a 10/100 ethernet switch or home router.

B Plug the included power adapter into the AC wall outlet, and the other end into the NTMS4. The LEDs should illuminate. If the yellow LED does not illuminate, check your network connection.

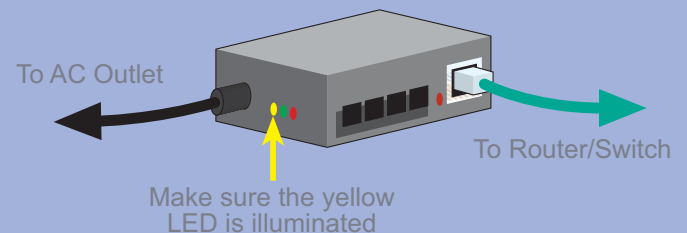
C Download and run the NTMS Configuration Wizard. The wizard will list all Networked Robotics hardware on your local network. Choose each NTMS and enter a static IP address and subnet mask that has been assigned by your network administrator. Select the monitored device types for each temperature port. Port 1 is on the left when facing the temperature jacks.

D If the NTMS is not discovered by the Configuration Wizard, check your connections and try again. If it is still not discovered, it may be that the NTMS is not on your local network. We suggest that you use a CAT5 crossover cable to connect the NTMS directly to the PC and try again.

A



B



C

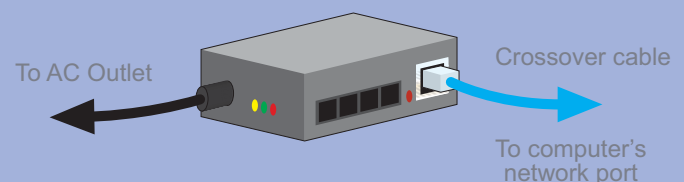
5 One or more NTMS4 have been found!

Mac address	Firmware	IP address	Netmask
00:50:C2:3A:A1:31	1.2	192.168.1.20	255.255.255.0
00:50:C2:3A:A1:2A	1.2	63.11.20.112	255.255.255.0
00:50:C2:3A:A1:57	1.2	192.168.1.30	255.255.255.0
00:50:C2:3A:A1:130	1.2	192.168.1.42	255.255.255.0

Select an NTMS to configure

Exit Back Next

D



2

Connect the NTMS to the devices to be monitored.

Direct connections to ultracolds:

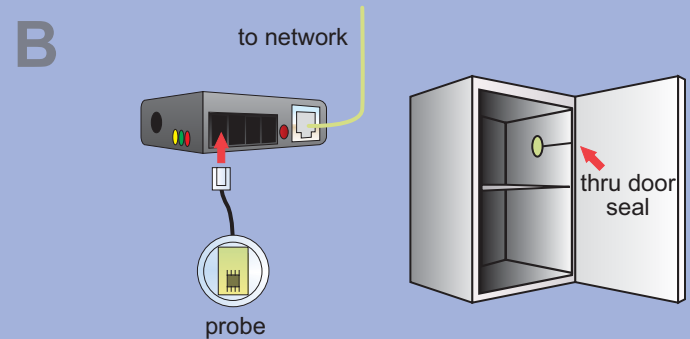
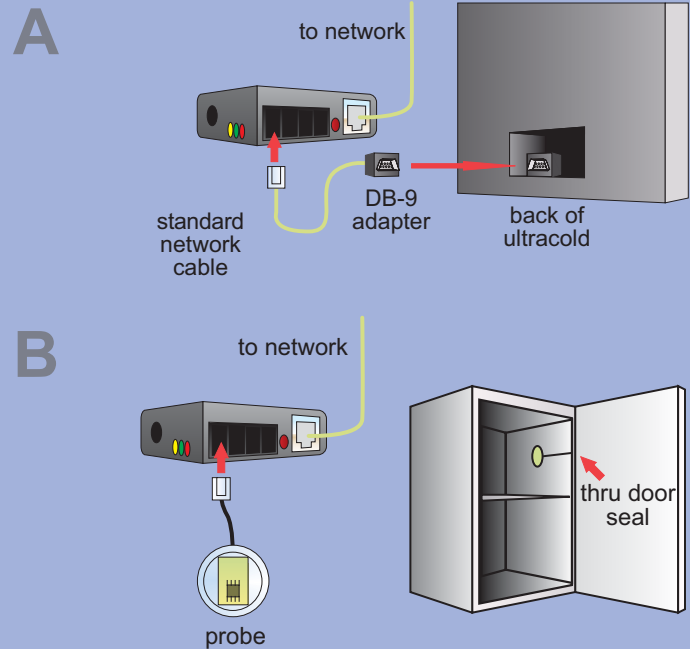
A Connect the NTMS directly to the ultracold serial port using the provided CAT5 network cable and the DB-9 adapter supplied. Make sure that the port on the NTMS is configured for the freezer type being monitored. Remove the adhesive backing on the NTMS and affix it where desired (see mounting suggestions).

Networked Robotics temperature probes:

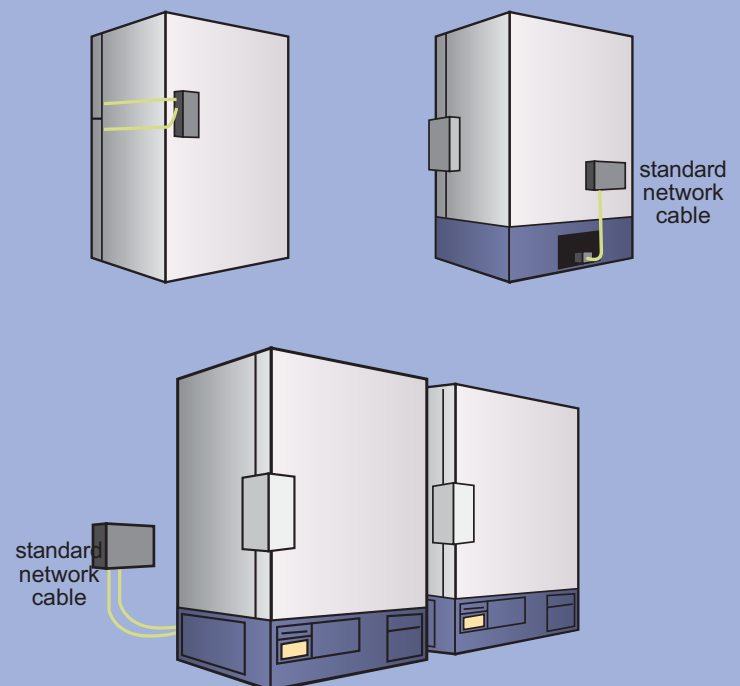
B Plug the Networked Robotics probe into an appropriately configured temperature port on the NTMS. Slip the probe between the door frame and the gasket of the door. Remove the adhesive backing. Affix the probe to the inside of the freezer as shown. Adhesive backing is effective at -40C and higher. For other devices try removing the adhesive backing and dipping the probe in glycerine. Hold it on the freezer interior wall until the glycerine freezes.

Extending the connection:

C You can use standard phone or network cables to extend the connection to monitored devices. The TPL3 Digital Temperature Probe can be extended with either standard 6-pin phone or CAT5 cable using the supplied female-to-female adapter. For ultracolds, use a longer CAT5 patch cable. Extension cables may be up to 400 feet long. NTMS units can be mounted in network closets and "patched" to monitored devices through a wall plate.



Mounting Suggestions



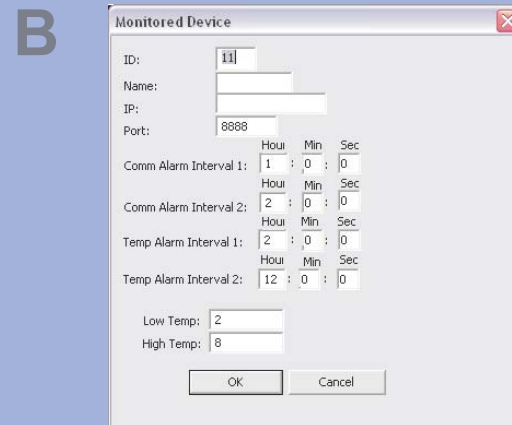
3

Specify the network and alarm parameters for the monitored devices.

A On the Windows computer on which data will be collected, the Tempurity Server, download the Tempurity Server software. Reboot the computer.

B Open the Tempurity Server Configuration Utility from the Windows program menu. Shown are columns for monitored device ID and name, IP address, network port, maximum and minimum allowable temperature. Click on the “Insert” button. In the Monitored Device window, you can change the identification, connection, and alarm parameters for each monitored device. Once all the settings are entered, click OK. When you are done, select Save and Edit from the File menu.

C Double-click the “NR” logo in the Windows taskbar. This brings up the Tempurity Server Taskbar dialog which turns collection on and off. Click the Start button. The light will change from red to green, indicating that temperature collection has started.



4

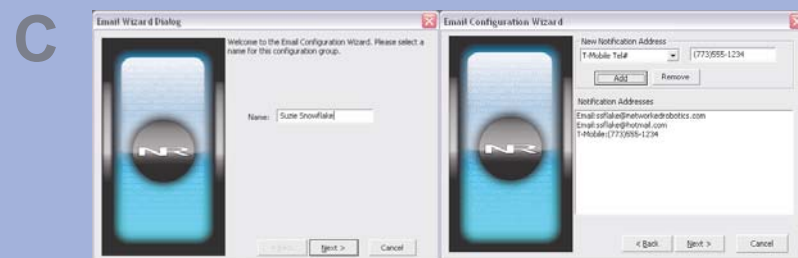
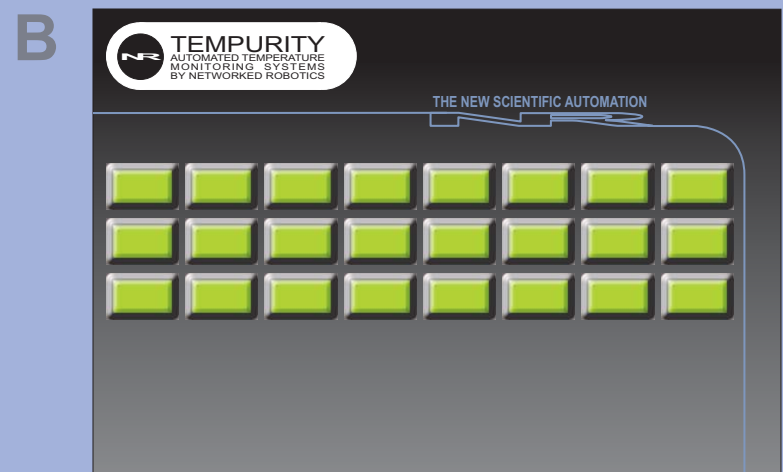
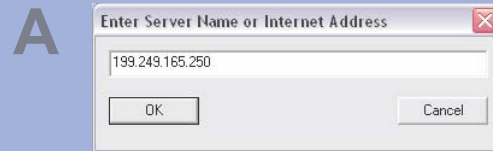
Run the Tempurity Monitor application.

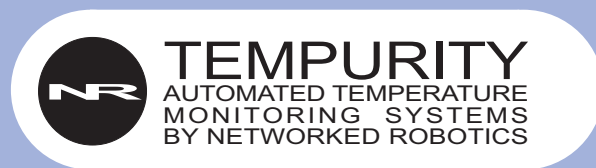
A Download and open the Tempurity Monitor application from any PC that has network access to the Tempurity Server computer. Enter the IP address or domain name of the the Tempurity Server. If the Tempurity Server is also the computer on which you are running the Tempurity Monitor, type “localhost”. Click the OK button. You may wish to have your IT group define a readable domain name for the Tempurity Server such as “tempurity.missouri.edu”.

B A screen similar to the one shown should be displayed, depending on the name and number of devices connected to Tempurity.

C Define how people will be notified when alarms occur by clicking “Alarm Notification” from the main Monitor window. Enter a list of appropriate e-mail addresses or phone numbers for text messaging in the “Notification address” field. Ensure that test alarm notifications are received as expected. The Monitor must be running in order for alarm notifications to be sent. The monitor autostart section of the User’s Guide describes how this function can be set to run constantly.

D Set the Windows operating system on the server computer (and optionally on the client(s)) for continuous operation. Examples include the “power always on” setting. See the support section of the Networked Robotics web site.





a product by

NETWORKED ROBOTICS CORPORATION

825 Chicago Ave. Suite F
Evanston IL 60202

EMAIL:

info@networkedrobotics.com

TECHNICAL SUPPORT:

Toll Free:

(877) FRZ TEMP

(877) GLP TEMP

(877) 379 8367

or

(847) 424 8019