

DeviceLink system for TSX Series ultra-low temperature (ULT) freezers

Temperature monitoring comes standard on TSX Series ULT freezers

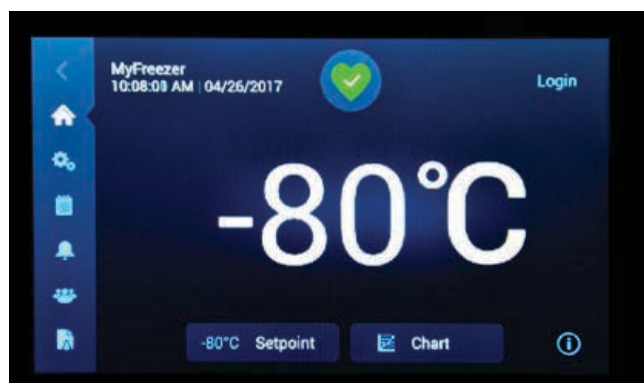


- **The Thermo Scientific™ DeviceLink™ system** is a built-in capability of your laboratory equipment that enables a Wi-Fi-based connection to transmit equipment data*
- **The InstrumentConnect app** is the cloud-based platform enabling real-time monitoring of the data transmitted by the DeviceLink system

ULT monitoring and alarms

ULT freezers have built-in sensors that monitor a variety of system components, including compressors, evaporators, ambient, and internal cabinet temperature. This information is used by the freezer to detect system issues and to

trigger an alarm when necessary. These monitoring points come standard on Thermo Scientific™ TSX Series ULT freezers.



Monitoring points:

- Cabinet temperature
- Ambient temperature
- Setpoints

Alarms/notifications:

- Warm and cold
- Door open
- Power failure/wrong power
- Refrigeration system failure
- Main/backup system probe failures
- Main/backup system battery disconnected
- Main/backup system lost communications
- Water flow rate (water-cooled ULT only)

Maintain your focus and peace of mind with the DeviceLink system and the InstrumentConnect app.

* DeviceLink system Wi-Fi technology not available in all countries/regions.

Connecting a ULT to your InstrumentConnect account:

There is no restriction on the number of users who can connect to a single ULT freezer.

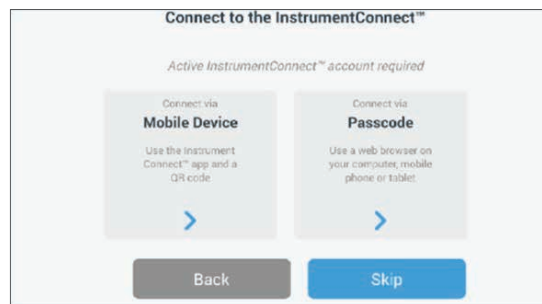
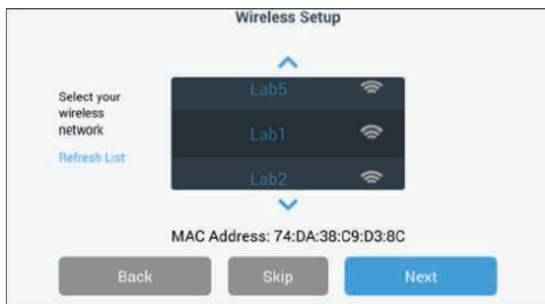
Step 1: Create an InstrumentConnect account (and download the InstrumentConnect app, if desired).

Step 2: Go to the user interface on the ULT freezer.

Step 3: Either from the ULT initial Start-Up Wizard or from the Connectivity Settings screen, select the Wi-Fi network and sign in with the appropriate network credentials.

Step 4: Connect through either option below: Connect via Mobile Device, or Passcode (web application).

Step 5: Follow the on-screen prompts to complete setup.



More connection information can be found in the TSX ULT user manual. Find your user manual at thermofisher.com/usermanuals.

For additional help, contact technical support:

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Spain/Portugal: +34 93 223 09 18

Switzerland: +41 44 454 12 22

UK/Ireland: +44 870 609 9203

DeviceLink system requirements/specifications:

- **Wi-Fi protocol:** 2.4 GHz; IEEE 802.11B, IEEE802.11G, IEEE 802.11N
- **Wi-Fi SSID:** Must be identified under network scan (can't be a hidden connection)
- **Firewall ports:** 123 and 443
- **Wi-Fi range:** Up to 30 meters
- **Wi-Fi security:** WPA2PSK (general home/personal), WPA2PEAP (enterprise; certificate validation is supported)
- **Password compatibility:** Use of ASCII pre-shared keys (8-63 ASCII Characters)
- **Required wireless signal:** -67 dBm (minimum)
- **Wi-Fi data rate:** 1 Mbps (minimum)
- **Wi-Fi transmission rates:** 5-minute intervals (temperature); real time for alarms and events



Find out more at thermofisher.com/cold

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