



Remote monitoring

# Enhanced sample security and streamlined asset management

Simplify equipment monitoring with the Connect Edge system

The lab of the future is here. The Thermo Scientific™ Connect Edge™ system provides 24/7 remote monitoring and asset management on the Thermo Scientific™ InstrumentConnect™ cloud-based platform to help ensure the integrity of products and samples vital to the work you do.

The Connect Edge system can also facilitate data transfer to your own cloud or on-premises system, such as LIMS and BMS, using OPC Unified Architecture (OPC UA™) protocols, eliminating the need for additional and complex system development.

Monitoring laboratory equipment is critical to helping avert potential product and sample loss and also helps to improve lab management efficiency, including uptime.

### Professional-grade capabilities

- Utilize OPC UA to extract and send data to your own management system
- Monitor on-board telemetry data, system-based diagnostic data, and events
- Receive notifications and alarms via email or web application
- View live device status 24/7 via mobile or cloud application
- Unlimited device data storage in the Thermo Fisher™ Connect Platform
- Store documents in our centralized document repository (25 GB included)
- Gain peace of mind with industry-leading security protocols



Wi-Fi/Ethernet kit

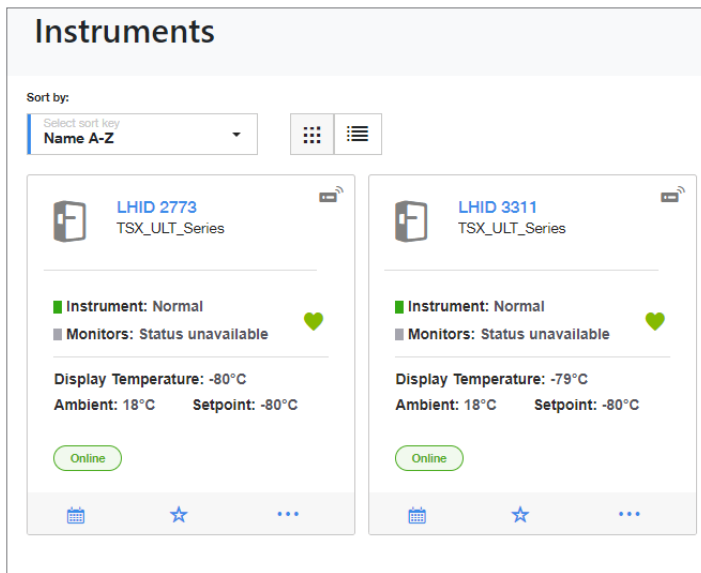
Adapters

Accessories

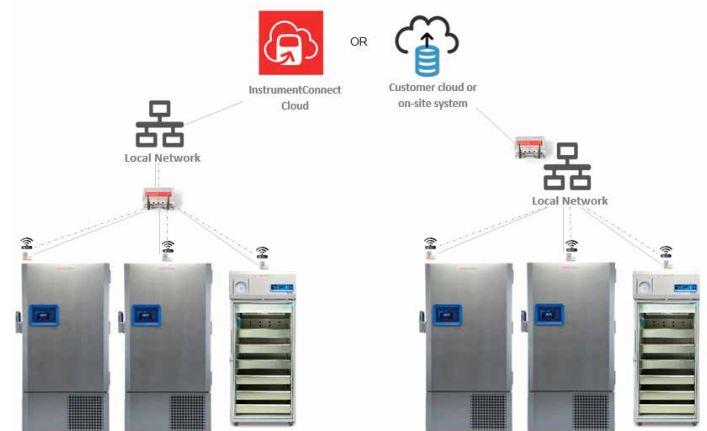
### Connect Edge system

The Connect Edge system helps you do more with less up-front cost, less hardware, and less worry. Connect Edge system hardware comprises gateways and palm-size device adapters with both Ethernet and Wi-Fi capabilities\* so you can decide how best to connect devices. Additionally, the Connect Edge system can enable connectivity for 10 or more devices,\*\* thus reducing overhead expenses and the amount of hardware to manage. The Connect Edge gateway can send data to the Connect Platform or to customer systems including LIMS and BMS via OPC UA.

- For cold storage equipment, the Connect Edge system reports ambient and cabinet temperature data recorded by resistance temperature detectors (RTDs) built into the unit; the remote monitoring system also reports alarms and events, as well as other system-based diagnostic data points, to the InstrumentConnect platform
- For CO<sub>2</sub> incubators, the Connect Edge system reports chamber temperatures, gas levels, and alarms and alerts received via the incubator data output connection to the InstrumentConnect platform



InstrumentConnect desktop and mobile applications provide convenient 24/7 access to view equipment status.



Connect Edge device adapters collect critical reliability parameters and can communicate with gateways directly or on a customer network for greater flexibility.

\* Wi-Fi adapter availability varies by country.

\*\* One Connect Edge system can monitor 10 devices. Capacity beyond 10 is determined by post-installation CPU usage and varies by device type.



## Get connected:

1. Determine type (Ethernet only/Wi-Fi and Ethernet) and quantity of gateway(s) needed based on network topology preference.
2. Select compatible device adapter for your lab equipment.
3. Purchase an InstrumentConnect Monitor or Integrate subscription for each device.

**Subscription packages**—Thermo Fisher Scientific connectivity hardware can be used to monitor more than 700 Thermo Scientific™ laboratory device models—and growing. Save even more when you select a multi-year package or subscription.

**InstrumentConnect Monitor subscription**—remotely monitor live 24/7 status of your devices in the cloud anytime, anywhere with the InstrumentConnect mobile app or Connect Platform, secured by AWS.

**InstrumentConnect Integrate subscription**—send telemetry and other device data directly to your own cloud or premises-based system using OPC UA.

## Services

### Installation

Thermo Fisher field technicians are ready to help prepare your lab for the future. While our systems are designed to be self-installable, we recognize that this may not be a fit for everyone. Installation packages include everything necessary to set up your connected lab.\*

### Connect Edge System Services

Professional installation	Cat. No.
Installation of one Connect Edge gateway kit, includes account activation and travel within major metropolitan areas	INSCEGTWY
Installation of one Connect Edge adapter kit, includes travel if purchased with INSCEGTWY	INSCEADPT

## Data security

At Thermo Fisher, security and privacy is our highest priority. To help ensure the highest levels of protection and security against any compromise to your data, the Connect Platform was built using [Thermo Fisher's Cybersecurity Program](#), on the industry-leading Amazon Web Services™ (AWS) cloud-computing platform.

With AWS, all of your data is stored in highly secure data centers managed by dozens of compliance programs and audit safeguards.

Security features include:

- Data encryption
- Network firewalls
- Scheduled audits
- Data backup and recovery

\* Professional installation may not be available in all regions.





## Ordering information

### Gateway system and subscription packages

#### Monitor subscription package with Wi-Fi/Ethernet gateway\*

Description	Cat. No.
Monitor subscription for 3 devices, 2 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM3D2YGW
Monitor subscription for 5 devices, 2 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM5D2YGW
Monitor subscription for 10 devices, 2 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM10D2YGW
Monitor subscription for 3 devices, 3 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM3D3YGW
Monitor subscription for 5 devices, 3 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM5D3YGW
Monitor subscription for 10 devices, 3 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM10D3YGW
Monitor subscription for 3 devices, 5 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM3D5YGW
Monitor subscription for 5 devices, 5 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM5D5YGW
Monitor subscription for 10 devices, 5 years (includes Connect Edge gateway kit Wi-Fi/Ethernet, power supply with regional power adapters, Ethernet cable, and Wi-Fi antenna)	EDGM10D5YGW

\* Available for the US, Canada, the European Union (EU), the United Kingdom (UK), Australia, and New Zealand.

#### Monitor subscription package with Ethernet-only gateway\*

Description	Cat. No.
Monitor subscription for 3 devices, 2 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM3D2YEGW
Monitor subscription for 5 devices, 2 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM5D2YEGW
Monitor subscription for 10 devices, 2 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM10D2YEGW
Monitor subscription for 3 devices, 3 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM3D3YEGW
Monitor subscription for 5 devices, 3 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM5D3YEGW
Monitor subscription for 10 devices, 3 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM10D3YEGW
Monitor subscription for 3 devices, 5 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM3D5YEGW
Monitor subscription for 5 devices, 5 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM5D5YEGW
Monitor subscription for 10 devices, 5 years (includes Ethernet-only (global) Connect Edge gateway kit, power supply with power adapters, and Ethernet cable)	EDGM10D5YEGW

\* Available for the US, Canada, the EU, the UK, Australia, New Zealand, Hong Kong, South Korea, Oman, Bahrain, the United Arab Emirates (UAE), and Brazil.

# Subscriptions

## Monitor subscription for stand-alone or add-on devices (no hardware)

Description	Cat. No.
Monitor subscription for 1 device, 1 year	EDGM1D1Y
Monitor subscription for 1 device, 2 years	EDGM1D2Y
Monitor subscription for 1 device, 3 years	EDGM1D3Y
Monitor subscription for 1 device, 5 years	EDGM1D5Y
Monitor subscription for 3 devices, 2 years	EDGM3D2Y
Monitor subscription for 5 devices, 2 years	EDGM5D2Y
Monitor subscription for 10 devices, 2 years	EDGM10D2Y
Monitor subscription for 15 devices, 2 years	EDGM15D2Y
Monitor subscription for 20 devices, 2 years	EDGM20D2Y
Monitor subscription for 50 devices, 2 years	EDGM50D2Y
Monitor subscription for 3 devices, 3 years	EDGM3D3Y
Monitor subscription for 5 devices, 3 years	EDGM5D3Y
Monitor subscription for 10 devices, 3 years	EDGM10D3Y
Monitor subscription for 15 devices, 3 years	EDGM15D3Y
Monitor subscription for 20 devices, 3 years	EDGM20D3Y
Monitor subscription for 50 devices, 3 years	EDGM50D3Y
Monitor subscription for 3 devices, 5 years	EDGM3D5Y
Monitor subscription for 5 devices, 5 years	EDGM5D5Y
Monitor subscription for 10 devices, 5 years	EDGM10D5Y
Monitor subscription for 15 devices, 5 years	EDGM15D5Y
Monitor subscription for 20 devices, 5 years	EDGM20D5Y
Monitor subscription for 50 devices, 5 years	EDGM50D5Y

## Integrate subscription for OPC UA (hardware sold separately)

Description	Cat. No.
Integrate subscription for OPC UA, 1 device	EDGI1D
Integrate subscription for OPC UA, 5 devices	EDGI5D
Integrate subscription for OPC UA, 20 devices	EDGI20D



# Hardware

## Adapter kits

Description	Cat. No.
<b>Wi-Fi/Ethernet*</b>	
Connect Edge adapter kit for ULT/CO <sub>2</sub> equipment (RS-485)	EDGEKTADPT01
Connect Edge adapter kit for refrigerator/freezer (TTL serial)	EDGEKTADPT02
Connect Edge adapter kit for CO <sub>2</sub> equipment (RS-232)	EDGEKTADPT03
Connect Edge adapter kit for CO <sub>2</sub> equipment (USB)	EDGEKTADPT04
Connect Edge PoE adapter converter for Wi-Fi/Ethernet kits	EDGEKTADPT99
<b>Ethernet only (PoE)**</b>	
Connect Edge adapter PoE kit for ULT/CO <sub>2</sub> equipment (RS-485)	EDGEKTADPT51
Connect Edge adapter PoE kit for refrigerator/freezer (TTL serial)	EDGEKTADPT52
Connect Edge adapter PoE kit for CO <sub>2</sub> equipment (RS-232)	EDGEKTADPT53
Connect Edge adapter PoE kit for CO <sub>2</sub> equipment (USB)	EDGEKTADPT54

\* Ethernet when combined with EDGEKTADPT99. Available for the US, Canada, the EU, the UK, Australia, New Zealand, and Hong Kong.

\*\* Available for South Korea, Brazil, the UAE, South Africa, Bahrain, and Oman only.

## Replacement components and hardware

Description	Cat. No.
Connect Edge gateway kit Ethernet only; includes: Connect Edge gateway, power supply with regional power adapters, Ethernet cable	EDGEKTETHE01
Connect Edge gateway kit Wi-Fi; includes: Connect Edge gateway, power supply with regional adapters, Ethernet cable, Wi-Fi antenna	EDGEKTWIFI01
Connect Edge gateway DIN mounting bracket	EDGEPTBRKT001
Connect Edge gateway AC plug—Australia	EDGEPTPWRS13
Connect Edge gateway AC plug—China	EDGEPTPWRS14
Connect Edge gateway AC plug—India	EDGEPTPWRS15
Connect Edge gateway 24-watt power supply	EDGEPTPWRS01
Connect Edge gateway 2.45/5.8 GHz antenna	EDGEPTANTD01



# Compatible equipment

Device compatibility with the the Connect Edge system with onboard serial and USB port connections

Type of equipment	Model series
Ultra-low temperature freezers (-50°C to -80°C)	TSX Series, TSX Universal Series, TDE Series, TLE Series, TSU Series
	Revco RDE Series, RLE Series, UxF Series
	Forma FDE Series, 89000 Series, 88000 Series
	HERAfreeze HDE Series, HLE Series, HFU-T Series
Ultra-low temperature freezers (-10°C to -40°C)	TDE Series, TSX Universal Series
	Revco RDE Series
	Forma FDE Series
	HERAfreeze HDE Series
High-performance refrigerators (2°C to 8°C)	TSX Series
High-performance freezers (-20°C, -30°C)	
CO <sub>2</sub> incubators	Heracell 150i and 240i Series (standard RS-232 connection)
	Heracell VIOS 160i and 250i Series (standard USB connection)
	Forma i160, i250, Series 3 (standard USB connection)

Contact your sales representative for equipment not listed here.



See a complete list of compatible equipment by model number at [thermofisher.com/edgecompatible](https://thermofisher.com/edgecompatible)

Get connected at [thermofisher.com/connectedge](https://thermofisher.com/connectedge)

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