

thermo scientific



Connectivity

Thermo Scientific InSight

Remote monitoring and asset management solution

Proactively looking out for your samples

Thermo Scientific™ InSight is a remote monitoring and asset management solution that monitors key reliability parameters and uses advanced analytics to provide predictive indicators of possible system failures. InSight consists of Wi-Fi modules (motes), sensors, and software tools that allow you to monitor your laboratory equipment for key performance and reliability parameters and analyze data. InSight provides predictive system health indicators and asset management tools, such as reliability monitoring and repair effectiveness management, energy consumption and asset financial performance, overall asset performance, and health scoping. Alarms are issued automatically to users' email and mobile devices when threshold breaches are detected in the system.

InSight Analytics

InSight Analytics, powered by KLATU™, is a system designed to collect, analyze, and make efficiency and operating cost recommendations from multiple asset inputs and events such as:

- Lab equipment health assessment
- Energy consumption
- Door openings
- Environmental conditions (ambient temperature)

InSight Analytics monitors your compatible laboratory equipment 24 hours a day, seven days a week and alerts users when thresholds are exceeded. The data from InSight Analytics is run through a number of algorithms utilizing the InSight software. With InSight Analytics, you can determine and compare the asset performance against other similar laboratory equipment and product specifications.

How InSight Analytics works:

- Data is sent wirelessly from the InSight mote via your Wi-Fi network to InSight Cloud Platform.
- Once in the Cloud, the data is analyzed by the system, providing real-time comparison of the laboratory equipment's health to industry averages.
- This data analysis enables you to make knowledge-based asset decisions based on key performance indicators such as product service and support, service vs. buy decisions, and remote system health monitoring and trouble-shooting for service providers.

InSight asset management helps ensure the safety and integrity of the lab's most precious samples by capturing and analyzing performance data. Expert setup and quality maintenance is key in optimizing the functionality of the system. Thermo Scientific Unity Lab Services offers a full suite of installation, training, system maintenance, calibration and validation (IOQ) services – all to ensure ideal performance from your InSight monitoring system.



How it works



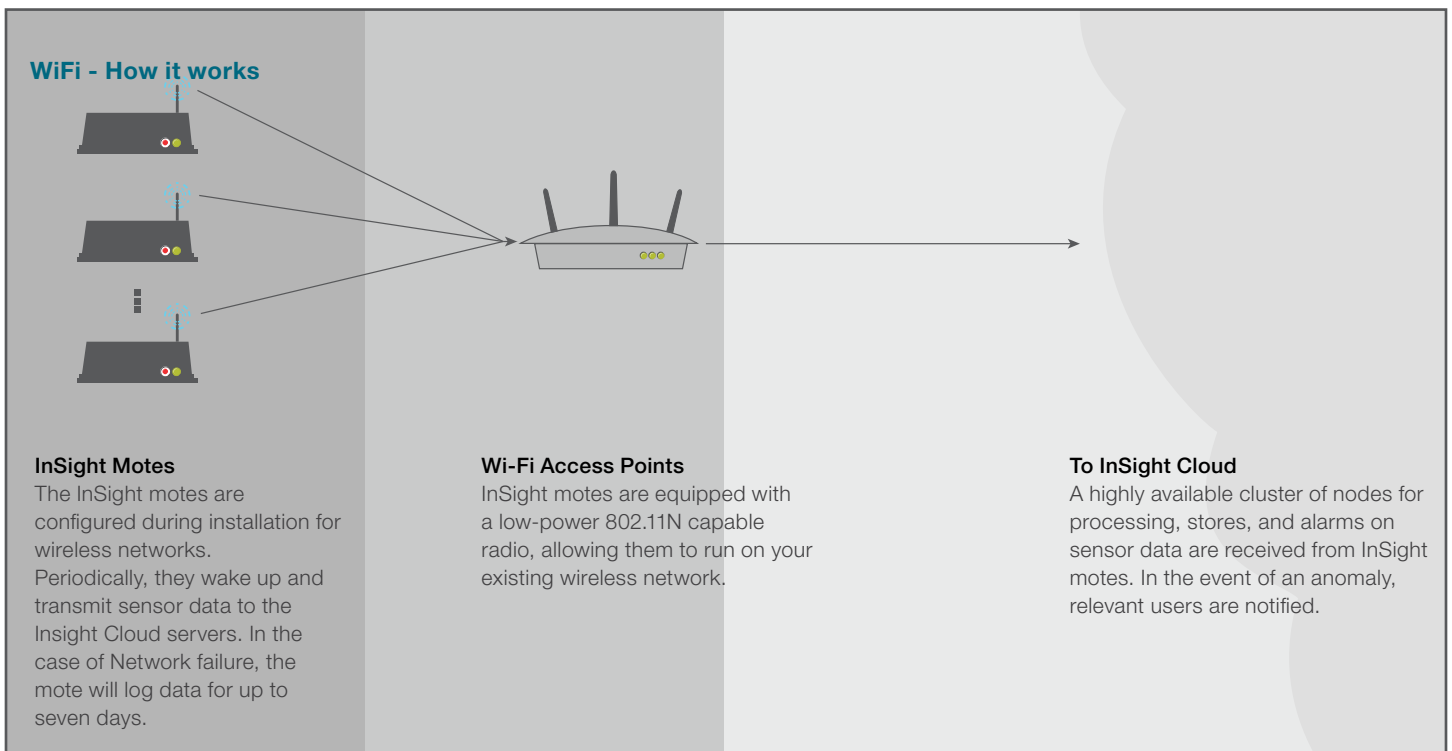
Step 1 – Connect device-specific sensors to your device

InSight remote monitoring and asset management solution mounted on your laboratory equipment.



Step 3 – Access the web app to monitor your device and receive notifications based on the thresholds configured or the advanced data analytics

InSight Analytics analyzes your laboratory equipment's vital signs.



Step 2 – Set up WiFi connections and configure connection

InSight Monitoring Kits specifications and ordering information

| InSight Monitoring Kits specifications | | |
|---|---|--------------|
| Description | Subscription credit usage | Cat. No. |
| Ultra-Low Temperature (ULT), Refrigerator, and Freezer | 2 credits for ULT Freezer, 1 credit for Refrigerator and Freezers | INSKTCOLD101 |
| InSight Kit for Walk-In Freezer (single refrigeration system) | 6 credits for all single refrigeration system Walk-Ins | INSKTWALK101 |
| InSight Kit for Walk-In Freezer (dual refrigeration system) | 12 credits for all dual refrigeration system Walk-Ins | INSKTWALK102 |
| InSight Kit for Cryogenic Storage (LN ₂) | 1 credit | INSKTCRYO101 |
| InSight Kit for Incubator (dataport only) | 1 credit | INSKTINC101 |
| InSight Kit for Incubator (Temp/RH) | 1 credit | INSKTINC102 |
| InSight Kit for Incubator (CO ₂) | 1 credit | INSKTINC103 |
| InSight Kit for Incubator (Temp/RH Condensable) | 1 credit | INSKTINC104 |
| InSight Kit for Incubator (Temp/RH/CO ₂) | 1 credit | INSKTINC105 |
| InSight Kit for Incubator T/RH Condensable/CO ₂) | 1 credit | INSKTINC106 |
| InSight Kit for Temp/Door Switch Only | 0.5 credits | INSKTTEMP101 |

Note: InSight Platform subscription credits sold separately. Please inquire with the sales team for subscription credit packages.

InSight subscription ordering information

| InSight subscription credit packages | |
|---|--------------|
| Description | Cat. No. |
| Subscription credits package 1 credit | INSSWSUB0001 |
| Subscription credits package 5 credits | INSSWSUB0005 |
| Subscription credits package 20 credits | INSSWSUB0020 |
| Subscription credits package 50 credits | INSSWSUB0050 |
| Subscription credits package 100 credits | INSSWSUB0100 |
| Subscription credits package 250 credits | INSSWSUB0250 |
| Subscription credits package 500 credits | INSSWSUB0500 |
| Subscription credits package 1000 credits | INSSWSUB1000 |

Accessories—sensors ordering information

| InSight accessories | | | |
|--------------------------------|--------------|----------------------------------|--------------|
| Description | Cat. No. | Smart Cable required—description | Cat. No. |
| Temp sensor PT100 | INSPTTEMP001 | RTD Smart Cable | INSPTSMRT001 |
| CT 0-50amp | INSPTCURT001 | CT Smart Cable | INSPTSMRT002 |
| CT 0-80amp | INSPTCURT002 | CT Smart Cable | INSPTSMRT002 |
| Door Switch | INSPTDOOR001 | | |
| Temp/RH (<90% humidity) sensor | INSPHUMI001 | | |
| CO ₂ sensor (RS232) | INSPTCO2A001 | | |
| Temp/RH sensor | INSPTMRHI002 | | |

Note: Some sensors require smart cables - sold separately.

Accessories—data cables ordering information

| InSight data cables | | |
|-------------------------------|--------------|---------------------------|
| Description | Cat. No. | InSight Kit compatibility |
| Forma 3110 Data cable (RS232) | INSPTDATA001 | INSKTINC101-02 |
| Forma 3110 Data cable (USB) | INSPTDATA002 | INSKTINC101-02 |
| Infors ATR Data cable (RS232) | INSPTDATA003 | INSKTINC103-06 |
| Infors ATR Data cable (USB) | INSPTDATA004 | INSKTINC103-06 |
| HeraCell 150/240 Data (RS232) | INSPTDATA005 | INSKTINC103-06 |
| HeraCell 150/240 Data(USB) | INSPTDATA006 | INSKTINC103-06 |
| HeraCell 160i/250i Data (USB) | INSPTDATA007 | INSKTINC101-02 |
| | | INSKTINC103-06 |

Other cables and accessories ordering information

| InSight cables and accessories | |
|-----------------------------------|--------------|
| Description | Cat. No. |
| InSight G3 Mote (spare part) | INSPTMOTE001 |
| Optional Glycol Bottle for Sensor | 80080G08 |
| Power adapter | INSPTPWRA001 |
| Mounting HW | INSPTMONT001 |
| POE ethernet cable (spare part) | INSPTETHE002 |
| 7ft ethernet cable (spare part) | INSPTETHE003 |

InSight Service Support packages

| InSight Service Support | |
|--|------------------|
| Installation and training | Cat. No. |
| Professional hardware installation, software configuration, user admin, and cloud setup performed by factory trained service engineer. Applicable travel charges not included. Installation service for walk-in units require custom quote. | INSGT-AddPT-INST |
| Temperature sensor installation in a frozen ULT. | FRZNULT-SNSRINST |
| 4 hours webinar based training for InSight system - unlimited attendees. | INST-INSIGHT1041 |
| Network testing | Cat. No. |
| INSIGHTlink Gateway Software Installation and Network Test (per install); Send Canary test mote. Use Canary mote to test network configuration. Install INSIGHTlink gateway software and verify good mote connectivity. Per site, 1-25 Motes. | INST-INSIGHT1045 |
| INSIGHTlink Gateway Software Installation and Network Test (per install); Send Canary test mote. Use Canary mote to test network configuration. Install INSIGHTlink gateway software and verify good mote connectivity. Per site, 26-50 Motes. | INST-INSIGHT1046 |
| INSIGHTlink Gateway Software Installation and Network Test (per install); Send Canary test mote. Use Canary mote to test network configuration. Install INSIGHTlink gateway software and verify good mote connectivity. Per site, 51 + Motes. | INST-INSIGHT1042 |
| System maintenance | Cat. No. |
| InSight system inspection and evaluation, 1st point temp reference calibration, replace battery (for applicable models only). Travel included, Zone charges apply | INSGT-1stPT-PM |
| InSight additional point temp reference calibration and battery replacement (for applicable models only). | INSGT-ADDPT-PM |
| Calibrations | Cat. No. |
| ISO 9001 calibration, single monitoring probe, using NIST traceable standards. Certificate with before and after data. | CALBCRM1 |
| ISO 9001 calibration, dual monitoring probe, using NIST traceable standards. Certificate with before and after data. | CALBCRM2 |
| ISO 17025 accredited calibration, single monitoring probe, using NIST traceable standards. Accredited certificate with data and uncertainties. | CALPRRM1 |
| ISO 17025 accredited calibration, dual monitoring probe, using NIST traceable standards. Accredited certificate with data and uncertainties. | CALPRRM2 |
| IQOQ Validation Services | Cat. No. |
| Onsite qualification service for InSight | IOQP90105 |

 Learn more at thermofisher.com/wirelessmonitoring

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