

Remote monitoring

Smart-Vue Pro remote monitoring system

Real-time visibility, alerts, and compliance-ready data to protect your samples and operations.



Your work demands confidence at every step

Every sample represents critical research, valuable data, or a patient outcome. Therefore, maintaining the right conditions is essential. But everyday variables such as equipment performance, human interaction, and environmental changes can put those conditions at risk.



Be prepared for the unexpected

Thermo Scientific™ Smart-View™ Pro remote monitoring system provides continuous monitoring and real-time alerts, helping you protect sample integrity, maintain compliance, and address issues before they escalate.



A smarter approach to protection

With secure data logging, remote visibility, and proactive notifications, Smart-View Pro helps you safeguard your work with confidence.

Support what matters most:



Sample protection

Real-time alerts for out-of-range conditions help prevent sample loss and protect results.



Compliance

Continuous, audit-ready data logging helps meet regulatory requirements.



Operational efficiency

Improve visibility and asset management to reduce risk and support day-to-day productivity.



A complete solution for monitoring and protection

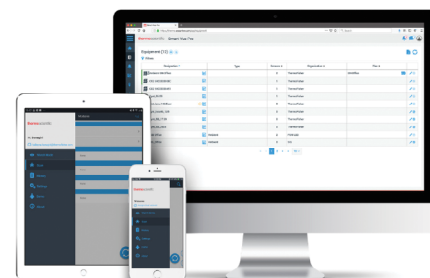
The Smart-View Pro remote monitoring system supports sample processing and storage across research, production, and clinical environments. It delivers real-time monitoring and secure, 21 CFR Part 11–compliant data logging of critical parameters through a dedicated, LoRaWAN™ platform (Long Range wireless Wide Area Network).

Monitoring conditions	Parameters
Ambient monitoring	• Temperature with external sensor • Temperature and relative humidity (RH) with external sensor
Ultra-low temperature freezers	–100°C to +150°C
Auto-cascade ultra-low temperature freezers	–155°C to –100°C
Cryogenic storage systems	–196°C to –100°C
Refrigerators (single-, double-, and triple-door)	0°C to +10°C
Freezers	–40°C to 0°C
Refrigerator-freezer combinations per chamber(i.e., top/bottom, left/right)	–30°C to +8°C
Cold rooms	–30°C to +8°C; –40°C or colder
Incubators	Ambient to +100°C, +120°C; and relative humidity (RH): 0–99.9%, non-condensing, CO ₂ , cleanrooms, dry contact
Water baths	Ambient to +120°C
4–20 mA current loop (0–5 V and 0–10 V)	4–20 mA; device with a 4–20 mA self-powered output
Ovens	Type T Thermocouple
Differential pressure	–500/+500 Pa.



Designed for simplicity, compliance, and scale

The ability to select probe, module, and network configurations lets you build the system you need. Its modular architecture supports easy expansion without costly upgrades and is compatible with a wide range of Thermo Scientific™ and third-party equipment. With long-range LoRa™ technology, the system can scale across labs, floors, or buildings with fewer gateways.*



Access and visibility

24/7 notifications are available with cloud or on-premises deployments, providing real-time insights from anywhere.

Compliance with confidence

Supports 21 CFR Part 11 guidelines with secure data logging, audit trails, and user-level access controls.

Scalable architecture

- Modular system grows with your lab across equipment, rooms, and sites
- Modules can monitor up to 4 pre-calibrated parameters

Reliable connectivity

Dedicated long-range wireless network reduces IT burden and expands coverage.

*Note: Up to 2 km line of sight in urban areas. Actual range impacted by building design, construction, and other natural obstacles.

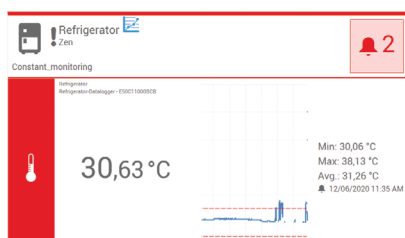
How it works



Data traceability and security

Smart-Vue Pro gateways collect data from dataloggers wirelessly and securely transmit it to the cloud or on-premises server. All data is time-stamped, encrypted, and stored in a 21 CFR Part 11-compliant environment with a complete audit trail.

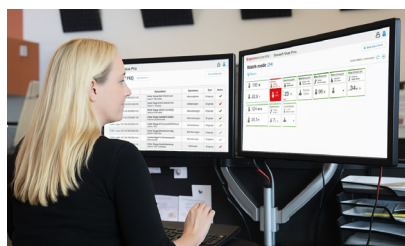
- Measurement and transfer periods are defined by the user. Data is transmitted securely in a digital format with backup.
- Automatic and continuous data logging creates a permanent record of readings, alarms, acknowledgments with impact notes, system access, and program changes with user traceability.



Notifications

Real-time and configurable alerts are delivered by email, SMS text*, or web application notifications so you can respond quickly to out-of-range conditions.

- Optional audiovisual alerts with Smart Remote Contact and Smart Remote Siren**



Access

View data, schedule and generate reports, and manage your system with role-based access for your team.

- Intuitive dashboard with exportable reports and customizable graphs
- Support for Single Sign-on (SSO) using Microsoft Entra™, Okta™ or Auth0™ technologies to align with modern IT standards

* Requires Smart-Vue Pro Alert subscription. ** Availability varies by region.

Modules built for performance

Smart-Vue Pro modules

Modules act as the communication hub for sensors, helping to support reliable data collection and long-range transmission.



Key features

- Audio/visual* alarms for local notification
- Low AC power consumption through optional USB port access
- Replaceable batteries with extended life (minimum of 1 year) allow for continuous monitoring
- Choice of wired and wireless sensors with automatic sensor detection
- User traceability with customized levels of user access with encrypted password protection
- Stand-alone module allowing direct connection via 4–20 mA output

Interact with key components and see how the system works across your lab environment.

Scan the QR code to explore the Smart-Vue Pro system in 3D



Scan me

* Requires external power.

Reliable wireless network that scales with you

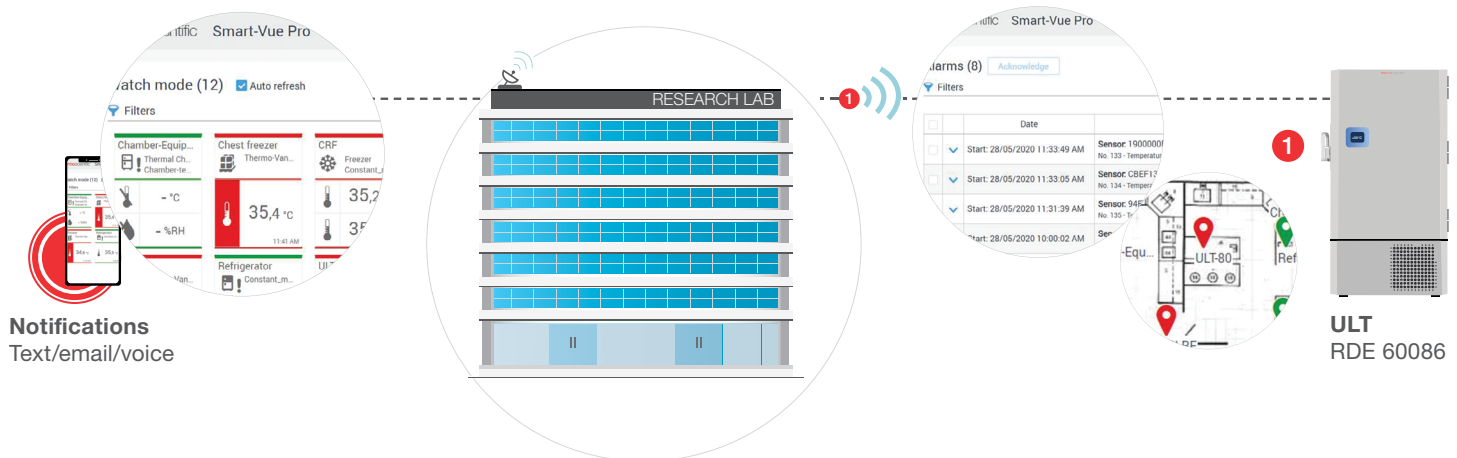
Long-range, secure, and dedicated

Smart-Vue Pro utilizes the IT-friendly LoRaWAN platform, which provides easy setup of a reliable, dedicated, and secure wireless network.

LoRaWAN, is a stand-alone dedicated network and increases the connectivity range for Internet of Things (IoT) devices by up to 2 km in urban and 9 km in rural areas.* Gateways push data to the cloud by connecting to your local network via an Ethernet, Wi-Fi, or 4G.**

- Long-range wireless connectivity enables a single gateway to cover large areas, replacing the need for repeaters
- Dedicated wireless network requires only an internet connection and minimal IT support needed for setup
- Support for up to 300 data-logging parameters per gateway

LoRa technology allows for coverage throughout your facility with as little as a single gateway.



* Under optimal conditions, LoRa technology can provide a 9 km range for communication. Actual performance will vary significantly and is heavily dependent on building construction. Signal strength testing is recommended to verify performance at a specific location.

** Available in select regions.

Services and support

Maximize the performance of your monitoring system with expert support from our Unity™ Lab Services team. Our specialized service solutions help ensure reliable operation, faster implementation, and long-term system stability—so your monitoring program stays efficient, compliant, and ready when you need it most.

- Professional installation/start-up by factory-trained field service engineers
- Compliance support to help you stay audit-ready
- Digital remote capabilities for faster troubleshooting and resolution
- Corrective and maintenance service to minimize downtime

Compliance service

Designed with you in mind, our comprehensive portfolio of compliance services offers a single-source solution. Our services are fully customizable to meet your specific needs and help ensure audit-ready data.

Calibration

Periodically verify that remote monitoring sensors are delivering accurate results within specified limits and maintain compliance with ISO 9001 or ISO/IEC 17025 standards. We support regulatory compliance through a global calibration infrastructure using advanced metrology techniques.

Installation qualification (IQ)

Documented verification that the equipment installation site and

environment meet the manufacturer's specifications and user requirements.

Operational qualification (OQ)

Documented verification that the equipment (as installed) is operating as intended according to manufacturer's specifications.

Requalification

Documented verification that equipment (as installed) continues to operate as expected by the manufacturer's specifications

and conforms to standards and requirements throughout the equipment lifecycle.

Preventive maintenance

Routine inspections that use standard procedures to help ensure equipment performance is at or near the same level achieved at installation.

Service plans

Entitlements	Remote Support	Tech Direct	Total Care
	RSRMSVPRO	TECRMSVPRO	CARERMSVPRO
Remote technical support, unlimited	√	√	√
Annual preventive maintenance	-	√	√
Battery replacement*	-	√	√
Data logger firmware updates	-	√	√
Corrective service	-	-	√
OEM spare parts	-	-	√

* Provided with annual preventive maintenance when applicable to hardware.

Services are available in select locations and may vary. Please contact your sales representative to confirm availability. Learn more at thermofisher.com/unitylabservices



Data security

Thermo Fisher Scientific maintains a comprehensive cybersecurity program designed to protect the confidentiality, integrity, and availability of data and systems within our environment. This continuously evolving program focuses on reducing risk, defending against threats, and safeguarding sensitive information, including intellectual property. Thermo Fisher Scientific is ISO/IEC 27001:2022 certified.

The Smart-View Pro solution incorporates multiple security controls, including authentication and authorization, password management, data logging, network security, and encryption. It is developed following a secure development lifecycle that includes security assessments, software security tools, and regular penetration testing. Identified risks are evaluated and prioritized for remediation based on criticality and business impact.

For more details on the Smart-View Pro remote monitoring system see our [Security quick reference guide](#).

For additional information, contact product.security@thermofisher.com

Ordering information

Modules

Description	Region	Cat. No.
Smart-View Pro Quatro 915 MHz only. Delivered with two 3.6 V lithium batteries, one sensor mounting kit, one mounting holder, one antenna and one 1.5 m/5 ft. flat cable.	North America	SVPHWRMOD014
Smart-View Pro Quatro 868 MHz only. Delivered with two 3.6 V lithium batteries, two sensors mounting kit, one mounting holder, one antenna and two 1.5 m/5 ft. flat cables.	Europe, Saudi Arabia, and Egypt	SVPHWRMOD024
Smart-View Pro Quatro 865-928 MHz. Delivered with two 3.6 V lithium batteries, two sensors mounting kit, one mounting holder, one antenna and two 1.5 m/5 ft. flat cables.	Australia, New Zealand, Singapore, Hong Kong, Thailand, Panama, Guatemala, Colombia, Argentina, Costa Rica, Brazil, Malaysia, South Korea, Taiwan, Japan, India	SVPHWRMOD034

Gateways

Description	Region	Cat. No.
Smart-View Pro LoRaWAN 915* 915 MHz LoRaWAN platform-enabled Ethernet/Wi-Fi connectivity receiver with universal power supply	US, Australia, New Zealand, Canada, Singapore, Hong Kong, Thailand, Panama, Guatemala, Colombia, Argentina, Costa Rica, Brazil	SVPHWRLGW003
Smart-View Pro LoRaWAN 865-868* 865–868 MHz LoRaWAN platform-enabled Ethernet/Wi-Fi connectivity receiver with universal power supply	Saudi Arabia, Egypt, India, and Europe	SVPHWRLGW004
Smart-View Pro 915 MHz LoRaWAN platform-enabled Ethernet connectivity receiver with universal power supply	Australia, New Zealand, Malaysia, South Korea, Argentina, Taiwan, Brazil	SVPHWRLGW005
Smart-View Pro 915 MHz LoRaWAN platform-enabled Ethernet + 4G Cellular connectivity receiver with universal power supply	Australia, New Zealand, South Korea, Japan, Argentina, Brazil	SVPHWRLGW006

* Frequencies and availability that are approved for use are country-specific. Please consult your local representative for more details.

Accessories and other parts

Description	Cat. No.
Smart Siren 865-868* Wireless alert device for LoRaWAN solution, 865–868 MHz, with universal power supply	SVPACCSIR002
Smart Siren 915* Wireless alert device for LoRaWAN solution, 915 MHz, with universal power supply	SVPACCSIR001
Wall mount holder kit includes one velcro fastener (11 cm) and two magnets for Smart Siren	SVSPRMNT003
Universal power supply for Smart Siren and Smart Remote Contact, 12 V*	SVSPRPWR001

* Please consult your local representative for regional availability.

Replacement parts and accessories

Description	Cat. No.
Universal power supply for Smart-Vue Pro system with USB cable, 5 V–1.2 A*	SVPACCPWR001
Sensor mounting kit includes: 2 wire ties, 4 plastic holders with removable sticky back adhesive	SVPSPRMNT002
1.5 m extension flat cable	SVPACCCBL001
Battery cover and screw replacement for Smart-Vue Pro system	SVSPRPRT001
Kit for Smart-Vue Pro system including 1 support + 1 magnet glued to the support	SVPSPRMNT001
Smart-Vue Pro adapter for use with 2 or 3 wire generic PT100 probes. The adapter connects directly to a Smart-Vue Pro Duo or Quatro module.	SVPADPPT1001
Smart-Vue Pro adapter for use with Smart-Vue Classic PT100 probes. The adapter connects directly to a Smart-Vue Pro Duo or Quatro module.	SVPADPPT1002
Type T Thermocouple Converter	ACC.ENR.0062
Antenna for Smart-Vue Pro Duo or Quatro, module wireless siren and dry contact	SVSPSRANT001

* Available only in select countries.

Wired sensors

Description	Cat. No.
Digital Sensor –40/+80°C, cable length 1 m (short)	SVPSSENTUS001
Digital Sensor –40/+80°C, cable length 1 m (short), calibrated at –30°C, –15°C, 0°C, 20°C, 40°C	SVPSSENTCS001
Digital Sensor –40/+80°C, cable length 1 m (short), 17025 calibration at –30°C, –15°C, 0°C, 20°C, 40°C	SVPSSENTAS001
Digital Sensor –40/+80°C, cable length 3.5 m (long)	SVPSSENTUE001
Digital Sensor –40/+80°C, cable length 3.5 m (long), calibrated at –30°C, –15°C, 0°C, 20°C, 40°C	SVPSSENTCE001
Digital Sensor –40/+80°C, cable length 1 m (short), 17025 calibration at –30°C, –15°C, 0°C, 20°C, 40°C	SVPSSENTAE001
Digital Sensor –40/+120°C, cable length 1 m	SVPSSENTUS002
Digital sensor –40/+120°C, cable length 1 m, calibrated at 30°C, 60°C, 80°C, 100°C, 105°C.	SVPSSENTCS002
Digital sensor –40/+120°C, cable length 1 m, 17025 calibration at 30°C, 60°C, 80°C, 100°C, 105°C.	SVPSSENTAS002
Smart Sensor Pt100, cable length 3.5 m	SVPSSENTUS003
Smart Sensor Pt100 calibrated at –80°C, –40°C, 0°C, cable length 3.5 m	SVPSSENTCS003
Smart Sensor Pt100 17025 calibration at –80°C, –40°C, 0°C, cable length 3.5 m	SVPSSENTAS003
Smart Sensor Pt100, cable length 1.4 m	SVPSSENTUS004
Smart Sensor Pt100 calibrated at –196°C, –80°C, 0°C, cable length 1.4 m	SVPSSENTCS004
Smart Sensor Pt100 17025 calibration at –196°C, –80°C, 0°C, cable length 1.4 m	SVPSSENTAS004
Smart Sensor, temperature and relative humidity, –40°C to +150°C, 0 to 99.9% RH	SVPSSENUS001
Smart Sensor, temperature and relative humidity, calibrated at +23°C/50% RH	SVPSSENRC001
Smart Sensor, temperature and relative humidity, 17025 calibration at +23°C/50% RH	SVPSSENRA001
Smart Sensor, temperature and relative humidity, 17025 calibration at +37°C/90% RH	SVPSSENRA002
Smart Sensor, temperature and relative humidity, calibrated at +37°C/90% RH	SVPSSENRC002
Smart Sensor 4–20 mA (0–5 V/0–10 V) single digital sensor	SVPSSEN4US001

Wired sensors (continued)

Description	Cat. No.
Smart Sensor 4–20 mA (0–5 V/0–10 V) single digital sensor, calibrated at 4, 8, 12, 16, and 20 mA.	SVPSSEN4CS001
IR Single/Multi Gas Triple Point Sensor CO ₂ , temperature, and relative humidity, CO ₂ : 0.5/9.9%. Temp: 0/+50°C, RH: 0/99%, calibrated at 5% CO ₂ /37°C/80% RH	SVPSENCUS001
TC Single Gas Triple Point Sensor CO ₂ , temperature, and relative humidity, CO ₂ : 0.5/9.9%. Temp: 0/+50°C, RH: 0/99%, accredited at 5% CO ₂ /37°C/80% RH	SVPSENCAS001
Compact TC Single Gas Temp/RH/CO ₂ Sensor Temp: 0/+50°C (+32°F to +122°F), RH: 0/99% CO ₂ : 0.5/9.9%. Calibrated at Temp 37°C, >80% RH, 5% CO ₂	SVPSENTHCC001
Compact TC Single Gas Temp/RH/CO ₂ Sensor Temp: 0/+50°C (+32°F to +122°F), RH: 0/99% CO ₂ : 0.5/9.9%, uncalibrated	SVPSENTHCU001
Compact IR Single/Multi Gas Temp/RH/CO ₂ Sensor-Accredited calibration. Accuracy: Temp <20°C: .3°C. Humidity accuracy at 50% 3% max. CO ₂ .65 max. Ambient 0–50°C, 0–100% RH non-condensing, 0–25% CO ₂	SVPSENTHCA001
High temp sensor (+100°C to +1100°C). Must purchase with 4–20 mA sensor, uncalibrated	SVPSSEN4CS001
IR Single/Multi Gas Triple Point Sensor CO ₂ , temperature, and relative humidity, CO ₂ : 0.5/9.9%. Temp: 0/+50°C, RH: 0/99%, calibrated at 5% CO ₂ /37°C/80% RH	SVPSENCCS001
Smart Differential Pressure Sensor –500/+500 Pa., tube length 50 cm, diameter 4 mm	SVPSENPUS001
Smart Differential Pressure Sensor –500/+500 Pa., tube length 50 cm, diameter 4 mm, calibrated at 0 Pa., 15 Pa., 25 Pa., 50 Pa.	SVPSENPCS001

Wireless sensors

Description	Cat. No.
Wireless Datalogger Module (remote sensor) –40°C to +85°C, calibrated at +5°C	SVPWSENTCS001
Wireless Datalogger Module (remote sensor) –40°C to +85°C, 17025 calibration at +5°C	SVPWSENTAS001
Wireless Datalogger Module (remote sensor) with external temperature Pt100 probe –200°C to +50°C, calibrated at –80°C	SVPWSENTCS002
Wireless Datalogger Module (remote sensor) with external temperature Pt100 probe –200°C to +50°C, 17025 calibration at –80°C	SVPWSENTAS002
Wireless Datalogger Module (remote sensor) with external temperature Pt100 probe –50°C to +200°C, calibrated at +5°C	SVPWSENTCS003
Wireless Datalogger Module (remote sensor) with external temperature Pt100 probe –50°C to +200°C, 17025 calibration at +5°C	SVPWSENTAS003

Subscriptions and services

Subscription and server software catalog numbers

Cloud	Server (on-premises)	Alert
Type		
Annual	One time	Optional annual
Description		
Access to the full Smart-View Pro cloud solution for package number of sensors	Server software license for package number of sensors	Add-on notification package though SMS and voice calls (Twilio™)
SVPSWCS20005*	SVPSWPS20005*	SVPSWSA20005*
SVPSWCS20020	SVPSWPS20020	SVPSWSA20020
SVPSWCS20050	SVPSWPS20050	SVPSWSA20050
SVPSWCS20100	SVPSWPS20100	SVPSWSA20100
SVPSWCS20250	SVPSWPS20250	SVPSWSA20250
SVPSWCS20500	SVPSWPS20500	SVPSWSA20500
SVPSWCS21000	SVPSWPS21000**	SVPSWSA21000
SVPSWCS21500	SVPSWPS21500**	SVPSWSA21500
SVPSWCS22000	SVPSWPS22000**	SVPSWSA22000

* Promo tier.

** Server capacity restrictions apply. Check with the IT team.

Professional installation

Description	Cat. No.
Server configuration performed onsite for Smart-View Pro set-up. Adding up to 15 users, creating groups and creating company structure. Installation sold separately. Travel is included for standard service areas.	SVPCNFIGON1
Server configuration performed remotely for Smart-View Pro set-up. Adding up to 15 users, creating groups and creating company structure. Installation sold separately.	SVPCNFIGON2
Install and configure one Smart-View Pro module. Travel included for standard service areas for systems of 6 sensors or more. Sensor install charged separately.	SVPINSMODUL
Install and configure one basic Smart-View Pro sensor as identified in site survey, not requiring ULT-cold, earthquake restraints, access-controlled, limitations. Travel included for standard service areas for 6 sensors or more.	SVPINSSNSRB
Install and configure one advanced Smart-View Pro sensor as identified in site survey, requiring ULT-cold, earthquake restraints, access-controlled, limitations. Travel included for standard service areas for 6 sensors or more.	SVPINSSNSRV
Install and configure one Smart-View Pro LoRa gateway. Travel included for standard service areas for systems of 6 sensors or more.	SVPINSTLORA
Installation of one on-premises Smart-View Pro server performed onsite. Travel included for standard service areas.	SVPINSTSRV1
Installation of one on-premises Smart-View Pro server performed remotely.	SVPINSTSRV2
Install and config one Smart-View Pro extra e.g., siren or dry contact alarm. Travel included for standard service areas for systems of 6 sensors or more.	SVPINSXTRA

Professional installation (continued)

Description	Cat. No.
Orientation for Smart-Vue Pro hardware and software functions performed on-site and includes up to 3 hours, not to exceed classroom of 15 participants. Installation sold separately. Travel is included for standard service areas.	SVPORIENT1
Orientation for Smart-Vue Pro hardware and software functions provided by remote session for up to 3 hours with a classroom of up to 15 participants. Installation sold separately.	SVPORIENT2

Available in select regions.

Preventive maintenance

Description	Cat. No.
One on-site preventive maintenance for Smart-Vue Pro system. Datalogger batteries included. Travel included for standard service areas for systems of 6 sensors or more. Priced per datalogger, gateway, dry contact alarm, and siren.	SVPPMSVC1

Available in select regions.

Qualification services

Description	Cat. No.
IQOQ protocol checklist for system-wide Smart-Vue Pro qualification. English.	IOQDOCE89003675
IQOQ field delivery and protocol checklist for system-wide Smart-Vue Pro qualification, up to 15 modules. English.	IOQPCKE89003675
IQOQ field delivery and protocol checklist for system-wide Smart-Vue Pro qualification, up to 15 modules. French.	IOQPCKF89003675
IQOQ field delivery and protocol checklist for system-wide Smart-Vue Pro qualification, up to 15 modules. German.	IOQPCKG89003675
OQ field delivery and protocol checklist for system-wide Smart-Vue Pro qualification, up to 15 modules. Only for on-premises systems. English.	OQPCKE89003675
OQ field delivery and protocol checklist for system-wide Smart-Vue Pro qualification, up to 15 modules. Only for on-premises systems. French.	OQPCKF89003675
OQ field delivery and protocol checklist for system-wide Smart-Vue Pro qualification, up to 15 modules. Only for on-premises systems. German.	OQPCKG89003675

Available in select regions.

Requalification

Description	Cat. No.
Basic system functionality tests for up to 15 sensors, including verification of sensor view mode, alerts, and alarm testing, power fail/network loss, user access, escalation and notification, audit trail, and scheduled reporting.	RQRM

Available in select regions.

Service plans

Description	Cat. No.
Total Care plan (includes remote support, firmware updates, 1/year on-site preventive maintenance, and corrective maintenance) for full Smart-View Pro system inclusive of sensors. Covers 1 year priced per datalogger, gateway, dry contact alarm, and siren.	CARERMSVPRO
Tech Direct plan (includes remote support, firmware updates, plus 1 annual on-site preventive maintenance) for full Smart-View Pro system. Covers 1 year. Priced per datalogger, gateway, dry contact alarm, and siren.	TECRMSVPRO
Remote Support plan for full Smart-View Pro system. Covers 1 year. Priced per datalogger, gateway, dry contact alarm, and siren.	RSRMSVPRO

Available in select regions.

System update services

Description	Cat. No.
Smart-View Pro datalogger firmware upgrade	FWUPDT
Smart-View Pro server maintenance and software upgrade	SVSWSM

 Learn more at thermofisher.com/remotemonitoring

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