

Smart-Vue Pro Monitoring Solution



Wireless Temperature Monitoring System

Amanda Gasner

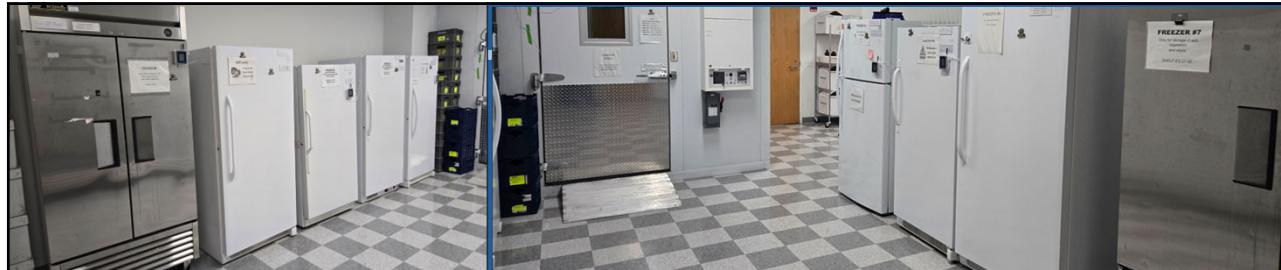
Division of Management Services/Bureau of Laboratory Service - Quality Assurance



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January 29, 2026

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EQUIPMENT MONITORED BY TMS

- Refrigerators
- Freezers
- Water Baths
- Incubators



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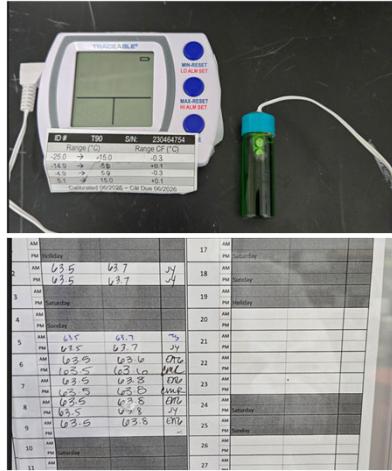
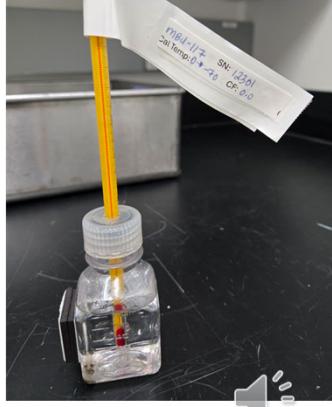
HISTORY OF TEMPERATURE MONITORING

Manual recording, data entry, and review

Multiple types of thermometers used

Inefficient process for temperature management

Only able to monitor equipment when lab is staffed – No holiday or evening coverage

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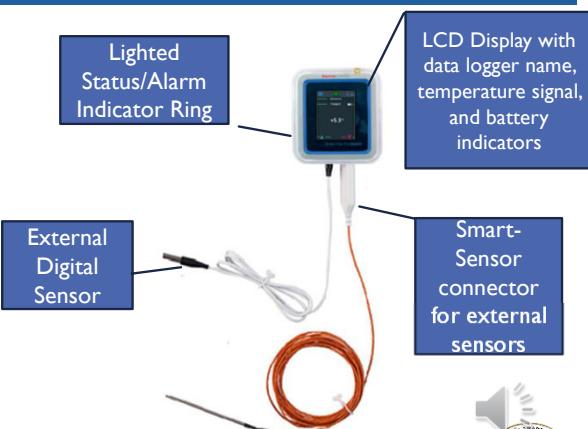
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SMART-VUE PRO DUO/QUATRO – DATA LOGGER AND SENSOR

 Sensors are easily programmed – quick changes in the software allows a logger to be moved between different pieces of equipment

 Magnetic mounting case – simple to install logger on equipment

 Quatro Loggers support up to 2 sensors at one time – allows for simultaneous viewing of equipment temperature



Lighted Status/Alarm Indicator Ring

LCD Display with data logger name, temperature signal, and battery indicators

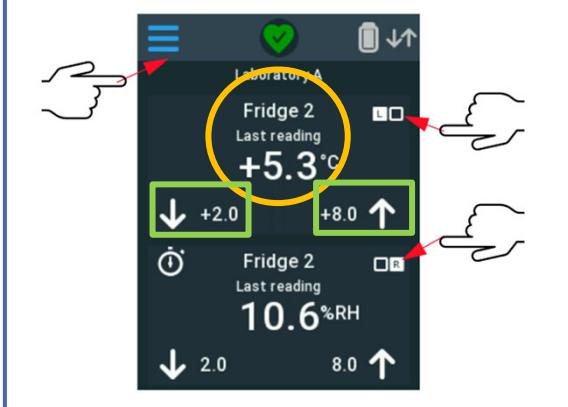
External Digital Sensor

Smart-Sensor connector for external sensors

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DATA LOGGER DISPLAY



Can access up to 2 sensors simultaneously

Current temperature and programmed limits are visible on the logger screen

The status bar menu allows staff to perform basic actions from the logger screen without logging into the software

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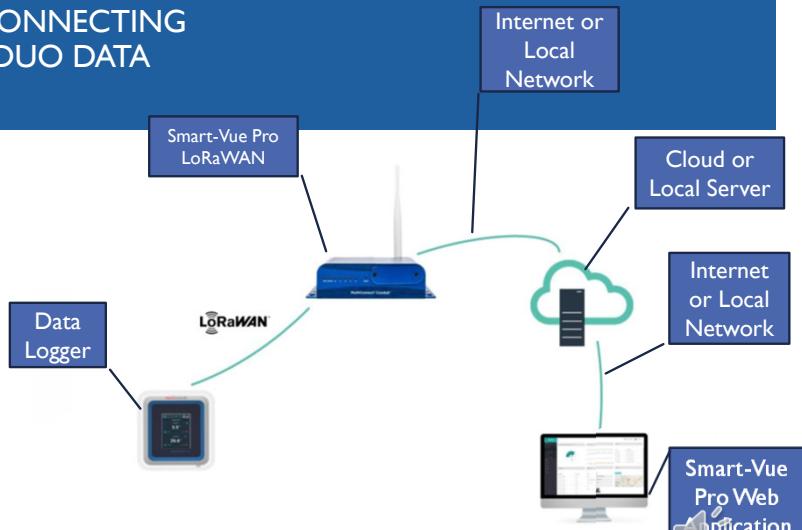
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OVERVIEW OF RECEIVER CONNECTING SMART-VUE PRO QUATRO/DUO DATA LOGGER TO THE CLOUD

Physical components – Data loggers, sensors and LoRaWAN

All data transmission occurs via network and cloud transmission

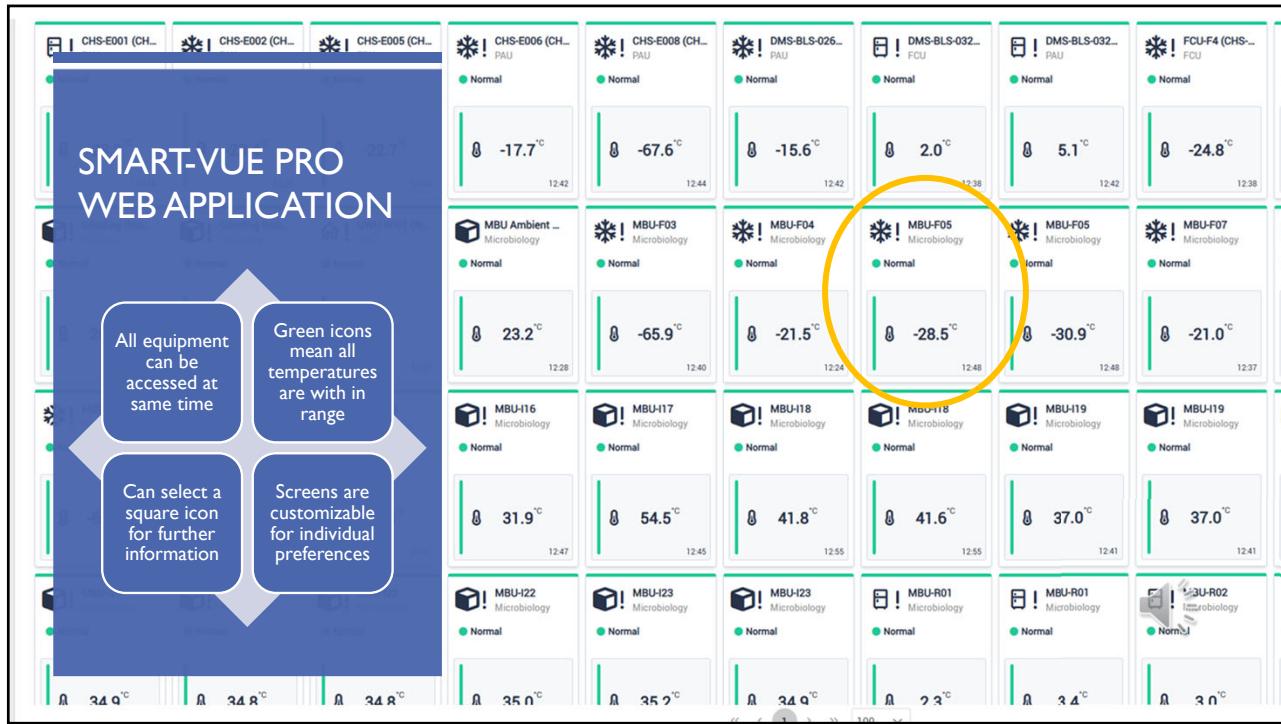
No manual recording



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AUDIT LOG

Eliminates manual entry

Fulfils regulatory requirement for documentation

Optimizes tracking of actions, issues or changes

> 12/14/2025 10:37:31 UTC: 12/14/2025 16:37:37	System user	GWU	Alarm Alert	User "Dustin Blanchard" alerted by e-mail (dcbblanchard@uwalumni.com) for alarm #88
> 12/14/2025 10:37:37 UTC: 12/14/2025 16:37:37	System user	GWU	Alarm Alert	User "Dustin Blanchard" alerted by e-mail (dustin.blanchard@wisconsin.gov) for alarm #88
> 12/14/2025 10:37:37 UTC: 12/14/2025 16:37:37	System user	GWU	Alarm Alert	User "Samantha Baumgartner" alerted by e-mail (samantha.baumgartner@wisconsin.gov) for alarm #88
> 12/14/2025 10:37:36 UTC: 12/14/2025 16:37:36	System user	GWU	Alarm Alert	User "Lauren Argetsinger" alerted by e-mail (lauren.argetsinger@wisconsin.gov) for alarm #88
> 12/14/2025 10:37:10 UTC: 12/14/2025 16:37:10	System user	GWU	Alarm Creation	Alarm # 88 limit 1.9 °C exceeded (1.62 °C) on equipment "GWU-WI01 (Walk-In Refrigerator)" (data logging "GWU-WI01")

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AUDIT LOG DETAILS

01/15/2026 16:08:37 UTC: 01/15/2026 22:08:37 Christine Rippinger Microbiology Alarm Acknowledgment Acknowledgment of limit alarm #92 (programmed value of 8.1 °C) on equipment "MBU-R13" (in data logging session "MBU-R13 2")

Property name	Old value	New value
Acknowledgment date	01/15/2026 16:08:37	
Cause	Loading	
Corrective action	Samples were loaded into the refrigerator. Temperature will be monitored.	

Details

- Alarm identifier: 92
- Alarm start: 01/15/2026 16:06:26
- Alarm type: High limit - Level 1
- Data logger: MBU-R13
- Data logger S/N: EA0C10100239
- Data logging: MBU-R13 2
- Equipment: MBU-R13
- Limit value: 8.1 °C
- Physical parameter: Temperature
- Probe S/N: BD00000E476BCA28
- Sensor number: 1
- Trigger value: 8.98 °C
- User: Christine Rippinger

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TMS BENEFITS

Detect	Detect trends in temperatures – alert staff to failing or malfunctioning equipment
Alert	Instantly alert all staff of out-of-range equipment – text, phone and email
Prevent	Prevent loss of samples and reagents due to 24-hour monitoring - Alarms give staff enough time to move items before damage occurs

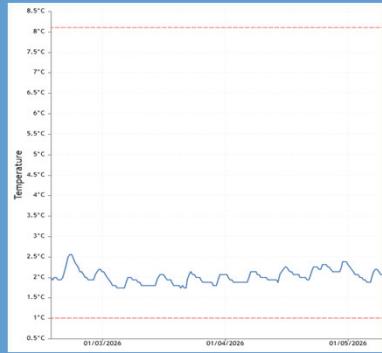


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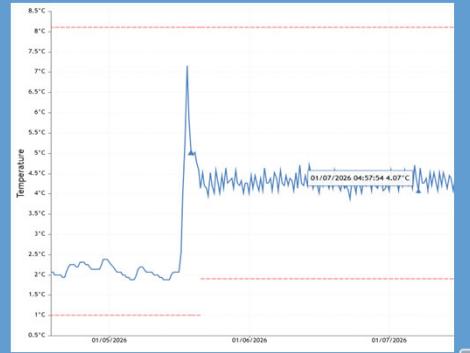
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DATA EVALUATION

Before



After



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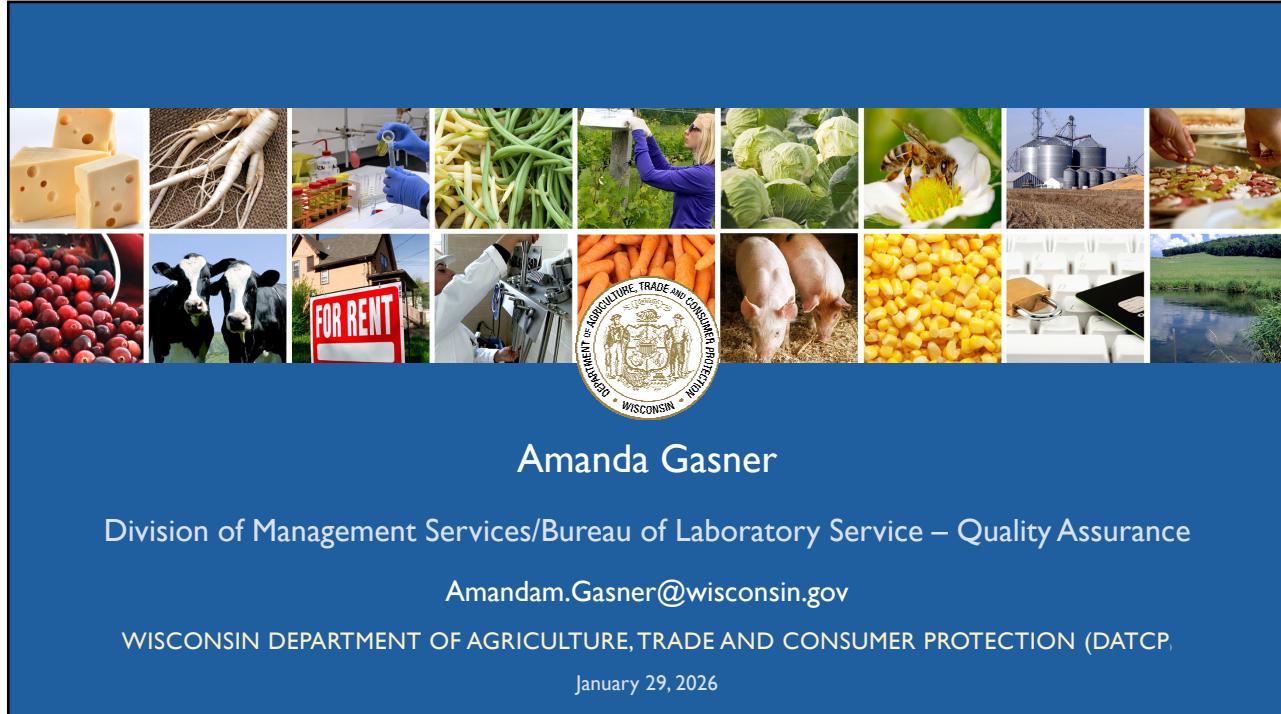
QUESTIONS?



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