



® Knowledge Beyond Measure.

TSI OmniTrak™ Solution in Action

University

Background

TSI Incorporated is a global leader in precision measurement instruments and monitoring solutions. With a strong focus on air quality and worker/occupant safety, TSI develops platforms like the **TSI OmniTrak™ Solution**, a modular system that allows facility managers and safety officers to track multiple parameters in real time. Paired with **TSI Link™ Report Creator**, **OmniTrak™ Solution** simplifies data collection, streamlines reporting, and adapts to evolving safety requirements.

One U.S. university turned to TSI in an effort to better protect student well-being and manage complex campus operations. The facilities team used TSI OmniTrak Solution for baseline testing across rooms and hallways, to investigate mold and mildew complaints, and to monitor particulate matter during construction projects. Real-time data on the Smart Station guided their decisions on filter replacement schedules, helping them balance safety with cost. They also relied on chlorine and formaldehyde modules for targeted troubleshooting, and after a hurricane caused severe flooding, OmniTrak Solution provided remote verification of air quality so buildings could safely reopen.



Challenges

- Meeting safety and compliance standards during construction
- Investigating mold and mildew complaints
- Monitoring indoor conditions during campus events
- Reopening buildings safely after hurricane flooding



Solution

- Deployment of OmniTrak Smart Station with wireless modules (PM, VOC, chlorine, formaldehyde)
- Remote monitoring to reduce staff exposure
- Real-time data on the Smart Station for faster troubleshooting
- Intuitive setup and training for staff adoption



Benefits

- Reduced staff risk in hazardous environments
- Significant time and cost savings from data-driven decisions
- Campus-wide environmental visibility
- Increased confidence through ongoing monitoring and seamless reporting

TSI OmniTrak™ Solution enabled a shift from reactive measures to intelligent monitoring... and that's how efficiency meets intelligence.

Detailed Results

The university was finding it harder to balance compliance, safety, and day-to-day operations across its campus. Construction projects, student health complaints, and emergencies like flooding made it clear they needed a way to track environmental conditions in real time. Without that visibility, the facilities team often had to react after the fact, which slowed down responses and drove up costs.

To address this, the university brought in the **TSI OmniTrak™** Smart Station with wireless modules for particulate matter, volatile organic compounds, chlorine, and formaldehyde. The system gave them a scalable way to monitor different hazards across campus. Remote access meant staff no longer had to enter potentially unsafe areas, and real-time data gave the team the information they needed to troubleshoot problems quickly and take action before issues escalated.

Since putting the system in place, the university has seen clear results. Staff exposure to hazards has gone down, maintenance costs have dropped thanks to data-driven filter changes, and buildings can reopen faster after extreme weather events. Just as important, having a campus-wide view of air quality and reliable reporting tools has boosted confidence in daily operations and strengthened the overall sense of safety for students, staff, and visitors.

Looking Forward

Universities and large facilities are facing increasing pressure to keep up with changing safety standards and compliance requirements. The **TSI OmniTrak™** Solution gives them a monitoring system that can scale and adapt as those needs evolve. Its modular design, combined with **TSI Link™** Report Creator, makes it easy to add new capabilities and expand coverage over time. Whether it is day-to-day operations or preparing for emergencies, the platform gives decision-makers the data they need to help protect students and staff, and use resources more effectively.

TSI works closely with organizations around the world to strengthen how they monitor their environments. By providing tools that are practical, adaptable, and reliable, TSI is helping institutions make better decisions, respond faster, and create safer spaces for the people who rely on them.



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TSI Incorporated - Visit our website www.tsi.com for more information.

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