



® Knowledge Beyond Measure.

TSI OmniTrak™ Solution in Action

K-12 Indoor Environmental Quality

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.

K-12 school districts are increasingly responsible for maintaining healthy, comfortable learning environments while operating under tight budgets and limited staff resources. Administrators and facilities teams must respond to concerns about indoor air quality and noise without disrupting classrooms or altering student behavior. Discreet, reliable monitoring and clear communication are essential to maintaining trust with teachers, parents, and the broader community.



Challenges

- Investigating IAQ and noise concerns without disrupting classrooms
- Capturing representative data during normal student activity
- Managing multiple schools with limited facilities staff
- Clearly communicating findings to administrators and parents



Solution

- Deployed **OmniTrak™** Smart Stations with PM, VOC, CO₂, and sound level (SLM) modules
- Used discreet, unattended monitoring to avoid influencing classroom behavior
- Enabled remote data access across multiple schools
- Leveraged **TSI Link™** Report Creator for clear, shareable reporting



Benefits

- More accurate, representative IEQ data
- Leaving behind devices in discreet locations reduces time spent on in-person assessments
- Improved confidence among educators, administrators, and parents

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

Detailed Results

By deploying OmniTrak™ Solution units directly in classrooms, libraries, and shared learning spaces, district facilities teams were able to assess indoor environmental conditions without altering daily routines. The discreet SLM module allowed sound levels to be measured continuously without students changing their behavior, producing more representative data than traditional attended assessments.

Across multiple schools, facilities teams reduced time spent on classroom investigations by an estimated 25–35%. Leveraging both the OmniTrak™ Solution and TSI Link™ Report Creator allowed staff to review data centrally and helped reduce site visits. In several cases, objective data confirmed that conditions met district guidelines, helping resolve concerns quickly and avoid unnecessary HVAC adjustments or schedule changes.

Looking Forward

As districts continue to prioritize student health and learning outcomes, scalable monitoring tools are becoming increasingly important. The OmniTrak™ Solution, paired with TSI Link™ Report Creator, gives K–12 school systems a practical way to monitor IEQ, respond to concerns efficiently, and communicate transparently with stakeholders. The modular platform allows districts to expand monitoring programs over time while maintaining consistent workflows.



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