



Roof Monitoring

Linear detection sensors installed into roof system for moisture detection. Installation to new construction or even in existing construction during reroofing.

Penetration Monitoring

Install moisture detection around roof penetrations from the underside of the roof deck. Installation can be applied to new or old buildings.

Indoor Leak Protection

Monitor indoor plumbing, mechanical equipment, and under tubs and showers for water leaks.

Indoor Air Monitoring

Monitor indoor conditions for relative humidity, CO2, and temperature.

Sample Moisture Monitoring

Sensor probes installed into wall system from exterior to interior. Installation to existing construction with minimal disruption to cladding.

Extensive Moisture Monitoring

Linear detection sensors installed into wall system from exterior to interior. Installation to new construction or even in existing construction during routine maintenance or renovations.



Wall Moisture Detection System



External Mounted Solar Powered Moisture Sensor System



Roof Moisture Detection Grid

BUILDING INTELLIGENCE

SMT Research manufactures sensors and electronics that are installed during or after construction to monitor the integrity of a building structure. On-site data acquisition is accomplished by wired or wireless electronics that forward the data to the internet for analysis.

- Moisture is detected by sensing elements such as Moisture Pins, Calibrated Moisture Gauges, Linear Moisture Detection Sensors, and Moisture Detection Tape.
- Differential Pressure, RH, wind speed/direction, precipitation and other sensors can be applied to further understand moisture related events in the structure.
- Moisture related building issues if left unattended require expensive remediation or expensive corrective action.
- The application of moisture detection systems enables facility management teams to be proactive and aware of maintenance locations long before moisture causes severe damage.
- Moisture and mold related construction liability is increasing for architects, engineers, contractors and building owners. Insurers are mitigating their own risk by eliminating water damage coverage from their policies.
- Structure Monitoring Technology is a very cost effective solution that can help you understand your building's moisture characteristics and accumulation locations, and increase the visibility of potential moisture related damage.

BUILDING INTELLIGENCE MONITORING CENTRE - ANALYTICS

The power of SMT Research's technology is the information we make available at your finger tips. When moisture accumulation occurs, your weather data is automatically correlated to the effect of the moisture related event. The system shall forward status reports in PDF format to your email.

In the case of severe events - the system will alert you by email, text page or trigger the local alarm system.



Screen captures of online monitoring system