

## Measurement Monitoring Solution: MeasurEye

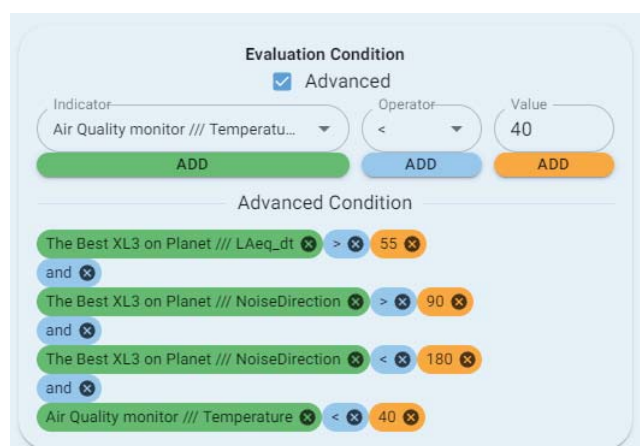


### FEATURES:

- **MeasurEye** is a cloud-based solution for monitoring Noise levels, Noise direction, Weather, Vibration and Air quality. It is a one-stop hub for construction sites, manufacturing facilities and communities, where environmental data can be gathered, secured, combined, and alerted in real-time
- Flexibility to establish and effortlessly manage remote monitoring projects. Link devices to MeasurEye and initiate the collection of measurement data. Configure events to trigger reports and send email alerts when measurement level limits are exceeded
- Data is recorded using
  - ✓ XL3 Sound Level Meter for noise level measurement
  - ✓ Weather Station for weather and wind measurements
  - ✓ 5GV Vibration Monitor for vibration measurement
  - ✓ AQ Guard Smart 1000 for air quality measurement

### Combined Event Evaluation Example

Evaluation conditions can be set for specific hours of the day and certain days of the week. Beyond these conditions, an event can also raise an alarm when an advanced evaluation condition is met, combining values from various sensors



The screenshot shows the 'Evaluation Condition' configuration screen. At the top, there is a section for 'Indicator' with a dropdown menu showing 'Air Quality monitor /// Temperatu...'. Below this are 'Operator' (set to '<') and 'Value' (set to '40') fields. There are three 'ADD' buttons (green, blue, orange) below these fields. Below this is an 'Advanced Condition' section with a list of conditions:
 

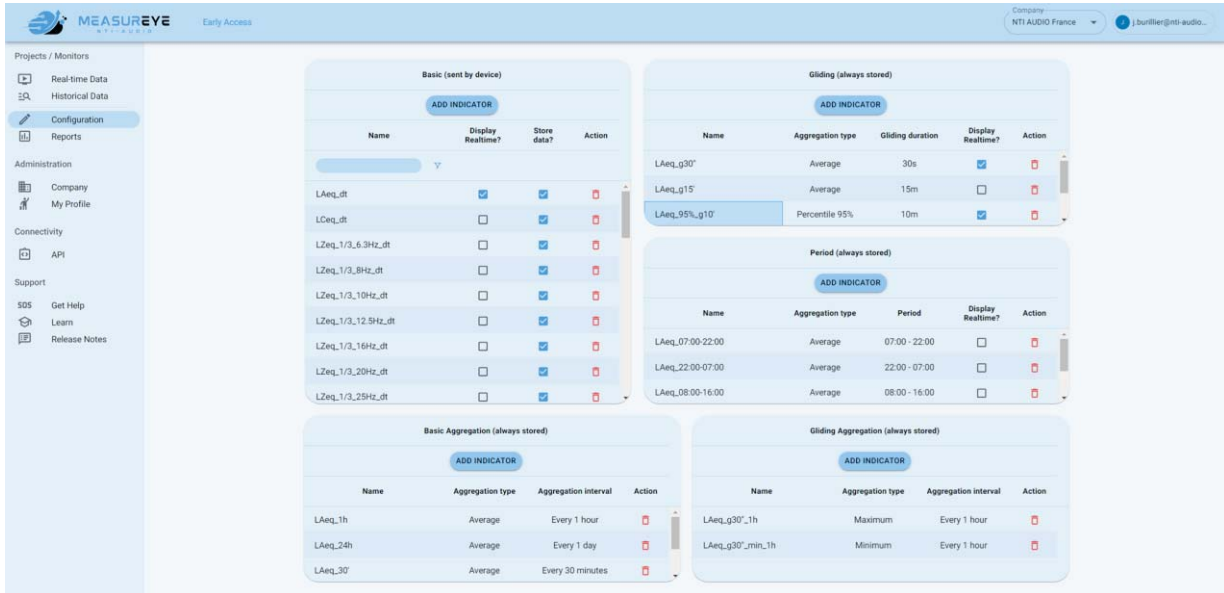
- The Best XL3 on Planet /// LAeq\_dt > 55
- and
- The Best XL3 on Planet /// NoiseDirection > 90
- and
- The Best XL3 on Planet /// NoiseDirection < 180
- and
- Air Quality monitor /// Temperature < 40

 Each condition is represented by a colored pill with a close button (X).

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### Supported Indicators:

- **Basic Indicators:** 800 raw-data indicators from the devices (eg LAeq\_dt, LAFmax\_dt, LAFT5, LZeq\_1/3\_6.3Hz\_dt)
- **Gliding, Period and Aggregated Indicators:** Specify duration and aggregation type (min, max, average, percentiles, dose/exposure)



MeasurEye Indicator Configuration Page

### Noise Classification with AI:

Optionally classify event alerts; a confidence score is assigned to various classes of noise, such as speech, machinery, traffic, and others



### Outdoor Measurement Microphone

An Outdoor Measurement Microphone offers a weather-protected measurement solution for the Sound Level Meter allowing acquisition of environmental noise data in outdoor applications. The corrosion-free polymer housing, wind screen, water-repellent membrane and bird spike provide excellent protection from rain, wind, dust, and perching birds

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### Weather Station

Rain, strong wind and the wind direction can influence the outdoor sound pressure level to be measured. A weather station can be connected to the noise measurement station to simultaneously record the noise level and the weather data. Depending on the weather station model used, air pressure, temperature, air humidity, rain, wind speed and wind direction are documented. NoiseScout supports the Vaisala models WXT532, WXT533 and WXT536.

- Weather Station WXT532 (PN 600 000 736): wind speed, wind direction
- Weather Station WXT533 (PN 600 000 737): wind speed, wind direction, rain fall
- Weather Station WXT536 (PN 600 000 739): wind speed, wind direction, rain fall, temperature, air pressure, humidity
- Over-voltage Protection for Weather Station (600 000 739)



### GSS 5GV Vibration Monitor

IP67 Certified and conforms to DIN45669-1, is a cutting-edge MEMS Vibration and Tilt monitor, that boasts exceptional precision and an integrated 3G/4G gateway (with an optional Wi-Fi gateway), making it the ideal solution for a wide range of industries (eg structural). The low-power and minimum maintenance designs ensure that it is easy to configure, install, and manage remotely. Monitoring includes:

- **Structural:** Peak Particle Velocity (mm/s), Peak Vector Sum (mm/s), Threshold alerts and historical trend readings
- **Human Response:** Acceleration 1/3 octave spectrum, Vibration Dose Values (VDV), and acceleration total value  $A_w(t)$ , Threshold alerts and historical trend readings

### Palas AQ Guard Smart 1000 Air Quality Monitoring Terminal

The AQ Guard Smart 1000 is ideal for measuring dust pollution at construction sites. It is a compact and cloud-enabled air quality analyzer for monitoring particulate matter (PM1, PM2.5, PM4, PM10, TSP), outdoors and under extreme conditions. The system is compatible with official measurement requirements of both environmental monitoring and health protection.

The device delivers linear values with an uncertainty as low as 12%, thereby producing far fewer false-positives than other sensors. It is an optical device requiring low maintenance (e.g. cleaning, replacing filters), and the high dynamic range reduces the risk of saturation of the sensor when clouds of dust are present.

