

Ektimo

Add Value to Your Next
Environmental Monitoring
Project

AIR QUALITY

MONITORING SYSTEMS FOR AIR QUALITY, WEATHER AND NOISE

Ektimo provide an extensive range of air quality monitoring instruments for environmental compliance, air quality management and workplace monitoring using gaseous pollutant analysers and particulate monitors with data management and reporting. Products are manufactured by global leading suppliers and supported by Ektimo teams across Australia.

AS/NZS 3580 series Compliant Analysers

HORIBA AP-370 series

Gas analysers for O₃, CO, NO/NO₂/NO_x, SO₂, CO₂, NH₃, H₂S, THC

HORIBA's Ambient Air Pollution analysers feature advanced technology, field-proven reliability with excellent sensitivity and precision at ppb level, and hassle free maintenance. Each ambient monitor differs in operating principle and can measure single/multiple components in ambient air or sampled gas.

- O₃ analyser using cross flow modulated ultraviolet absorption
- CO analyser with non-dispersion cross modulation IR method
- NO/NO₂/NO_x analyser with cross-flow modulated chemiluminescence method + optional NH₃ converter
- SO₂ analyser using UV fluorescence + optional H₂S converter
- THC analyser with FID principal
- NDIR analyser for ambient air CO₂ monitoring
- Multi gas calibrator, zero air generator, Hydrogen generator



HORIBA APDA-372

Beta Attenuation Monitor PM10, PM2.5

The APDA-371 automatically measures and records airborne particulate concentration levels (in milligrams or micrograms per cubic meter), using the industry-proven principle of beta ray attenuation.

- Two months automatic operation without maintenance
- Low operating costs
- Hourly check of Zero point, Span point (foil) and drift
- No annual calibration necessary
- High accuracy and reliability



HORIBA PX-375

Combined XRF Heavy Metal and BAM PM Monitor

PX-375 is a continuous analyser of PM mass and the elemental concentration by a single unit directly in the field. It adopts world proven technologies of X-ray fluorescence and Beta-ray attenuation in one compact instrument.

- Energy dispersive X-ray spectroscopy to measure S, Ti, Cr, Mn, Ni, Cu, Zn, Pb, Al, Si, K, Ca, V, Fe, and As as standard and optionally all components from Al to U
- BAM module with TSP, PM10 or PM2.5 inlet



Indicative and Near-Reference Air Quality Monitors

Dr. Födisch FDS

Continuous Ambient Fine Dust Monitors PM10 and PM2.5

FDS modules are particulate matter monitoring systems to simultaneously measure PM10 and PM2.5 concentrations at outdoor, indoor or workplace areas. They use a combined light scattering blocks with two reference and measuring cells for each fraction which brings enhanced reliability, accuracy and prolongs factory calibration period to two years.

- Patented electrostatic precipitator for internal zeroing
- FDS17 model for PM10 and PM2.5 / FDS15 for PM10 or PM2.5
- Modbus RS485 and analogue outputs, WiFi adapter, networkable
- Packaged solution with data logger, modem, web access, automatic alerts, solar or mains powered
- Exceptional correlation to TEOM data; tested across Australia



OIZOM Polludrone

Smart Air Quality Monitoring System

Polludrone is an air quality monitoring equipment with integrated sensors and data software. It monitors the ambient air particulate matter and gaseous concentrations in real-time. Using external sensors, it can also monitor other auxiliary parameters like wind and rain. Polludrone is an ideal choice for smart cities as well as urban infrastructure applications like roadside, campus, and airport monitoring.

- Pro model measures PM1, PM2.5, PM10, CO₂, CO, SO₂, NO, NO₂, O₃, H₂S, Noise, Light, UV-Radiation, Temperature, Humidity
- Mains or Solar powered
- OIZOM Terminal for access to data, trends, reports, alerts and more



OIZOM Dustroid

Smart Ambient Dust Monitor

Dutroid is an ambient dust monitor with optical particle counter to measure TSP (PM100), PM10, PM2.5, PM1, light and UV radiation, temperature and humidity. Pro model is equipped with heated inlet to eliminate effect of ambient moisture. The data is transmitted to the Oizom cloud in near real-time.

- Wide range of connectivity options GSM, WiFi, LoRa, NBLoT, Ethernet



OIZOM Odosense

Odourous Gas Monitoring System

Odosense is the real-time odour emission tracking solution. Odosense continuously detects and measures the odourful gaseous contaminants. Oizom Odour Monitoring System comprises of a network of e-noses (Odosense) positioned on the periphery of the site. The solution incorporates odour atmospheric dispersion modelling for predicting odour impact on the surrounding area depending on meteorological conditions

- Lite model measures SO₂, H₂S, NH₃, Temperature, Humidity. Smart version also measures CH₃SH, CH₄, and TVOC. Pro model includes CH₂O, NO₂, and Cl₂ sensors too. Wind and rain sensors are optional.
- Fully solar-powered solution with wireless data transmission



Environmental and Industrial Noise Monitors

Sonitus Systems EM2030

Continuous Sound Level Monitor

The EM2030 is a fully automated remote sound level monitor, designed for simple but reliable operation in tough environments. The EM2030 kit consists of a rugged measurement unit, weatherproof outdoor microphone, cable and mains power supply. System set up and configuration is over Wi-Fi link and can be done with a laptop, tablet or smart phone. EM2030 is ideal for applications where access or safety are an issue, such as construction sites, industrial or road side installations.

- Accurate Class 1 to measure LEQ, L05, L10, L50, L90, L95 and LMAX
- A and C frequency weighting; Frequency analysis option of 1/1 or 1/3 octaves; Audio capture option
- Flexible logging times with large memory for long-term data storage
- Automatic upload to secure cloud-hosted analysis system



Sonitus Systems DM30N Sitesens

Combined PM and Noise Monitor

Combined Dust and Sound Level monitor combining the features of DM30 and EM2030 Pro model measures. DM30N is an automated measurement equipment, designed for long life in tough environments and meets relevant international standards for online analysis.

- EM2030 as described above
- DM30 module to measure PM10, PM2.5 and PM1
- Built-in 4G and Wi-Fi communications



Weather Stations

Delta OHM HD52.3D

Multi Function Weather Sensor

The instruments of the series HD52.3D are 2 axes ultrasonic static anemometers for measuring Wind speed and direction, U-V Cartesian components of Wind speed, Wind gust, and optionally Relative Humidity and Temperature, Global Solar Radiation, Barometric pressure and Rainfall.

All models are equipped with a magnetic compass and two analog outputs for wind speed and direction. RS232, RS485, RS422 and SDI-12 serial interfaces are available with NMEA, MODBUS-RTU and SDI-12 communication protocols.



Ektimo Weather Stations

Wind, Temperature, Humidity, Pressure, Rain, Solar Radiation, UV

Ektimo has over 25 years of experience in air monitoring. We design and supply tailored weather stations to suit application. Ektimo supplies highest quality of sensors and components to provide highest quality of weather stations conforming to Australian standards.

- Use any brand or technology to suit project requirements
- Installed on tripods, 10m masts, telescopic masts, or other
- Mains or solar powered
- Data logger with remote access and comprehensive reporting



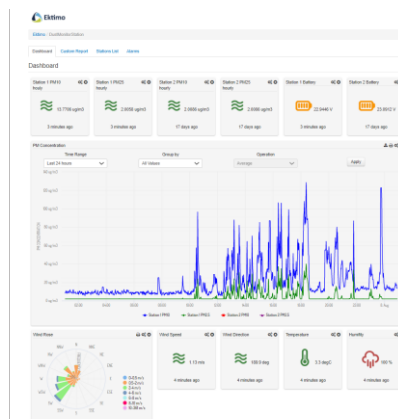
Ektimo Web Access Platform

DataTaker Live

Environmental Monitoring Platform

DataTaker Live is built to help companies collect, monitor, analyse, store, and share information that improves connectivity and data acquisition of process instruments and industrial systems. Our solution increases operational productivity and efficiency.

- Customised solution, easy Set up, affordable
- Numerical, table, trend, wind rose and barograph display
- Configurable alarm alert via sms or email
- Data logging and monitoring from your PC, smart phone, or tablet
- Service subscription allows unlimited users



Service and Maintenance

Ektimo service teams

Service workshops in NSW, QLD, VIC and WA

Result of air quality monitoring programs can only be guaranteed by checking the quality of data, keep the monitoring equipment in optimum operating conditions, and make sure the results fulfil regulatory requirements. Ektimo has teams of service technicians in offices across Australia to support products and clients by offering:

- Design, system integration, and quality of assurance
- Installation, commissioning, operation, maintenance, and repair
- Re-calibration using reference methods and collocation
- Data engineering services, reporting, consultation, modelling
- Air sampling and monitoring services and NATA lab testing



Ektimo's head office in Mitcham VIC

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