

## Multicomponent Imission System

The ETL 2000 is a revolutionary, low cost multicomponent air quality monitor that allows the realtime measurement of up to 5 gaseous air pollutants at ppb levels.

ETL 2000 is based on new solid-state heated thick film sensor technology providing measurement of No<sub>2</sub>, NO<sub>x</sub>, CO, O<sub>3</sub> and even Benzene. In addition, noise, temperature and relative humidity are measured simultaneously. The unit has in-built logging and GSM communications allowing data to be handled in the same manner as conventional air quality systems with the several standard network protocols available.

Roadside air quality monitoring is simple with the ETL 2000. The unit's compact size and ease of installation makes it suitable for either short-term survey work or long-term continuous measurement.

Sensors for CH<sub>4</sub> H<sub>2</sub>S and NH<sub>3</sub> are also available making the unit an ideal instrument for landfill site boundary monitoring.

ETL 2000 provides quality data at an affordable price - requiring low maintenance with a low cost of ownership. It is designed specifically for outdoor installations. The new heated thick film sensor technology provides superior sensitivity and accuracy when measuring low ppb levels of pollutants in ambient air compared with electrochemical cell based systems.

The ETL 2000 offers:

- Unique compact air quality station.
- Superior heated solid-state sensors.
- ppb detection limits for 5 gases: NO<sub>2</sub>, No<sub>x</sub>, CO, O<sub>3</sub> and Benzene.
- Response time of less then 10 seconds.
- Long-term stability & sensor life.
- In-built noise meter for background noise
- In-built temperature and humidity sensors.
- In-built data logger and GSM modem.
- IP65 weatherproof housing.
- Exceptional performance and value for money.



# ECM ECO Monitoring

Environmental & Process Monitoring instrumentation & systems

## Performance:

- NO<sub>2</sub> Measuring Range: 0 to 250 ppb
- NO<sub>x</sub> Measuring Range: 0 to 520 ppb
- CO Measuring Range: 0 to 80 ppm
- O<sub>3</sub> Measuring Range: 15 to 230 ppb
- Benzene Measuring Range: 0 to 15 ppb
- Noise Measuring Range: 45 to 105 dB
- Temperature Measuring Range: -10 to 70 °C
- Relative Humidity: 0 to 100%

## Specification:

- Dimensions: 370 x 522 x 210 mm (WxHxD)
- Weight: 15 Kg
- Power Supply: 220 V AC - 50 Hz (optional 24 V: ETL BUS Model)
- Consumption: 220 V - 50 Hz 0.1 amps



The ETL 2000 provides quality data utilising a central station software @COM3000 remotely retrieving data via landline modem or GSM, either from a single ETL or a network of units.

Local direct connection to ETL 2000 is also provided via laptop and RS232 cable.

Data management is provided from production of various trends and graphs on Windows 98 or NT operating systems.

## ETL 2000 is ideally suited for the following applications:

Integration with the traditional air quality networks in cities. ETL 2000 is in line with current and forthcoming EU Directives as a device for rapid screening of the pollutant levels in the environment.

With integration into traffic control and monitoring systems, air quality data from the ETL 2000 unit can be used to supplement other information such as traffic flow, vehicle numbers and type, to influence traffic control measures and reduce pollution levels.

## ETL 2000 NO<sub>x</sub> & O<sub>3</sub> data

- blue line: NO<sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )  
15 min average
- red line: O<sub>3</sub> ( $\mu\text{g}/\text{m}^3$ )  
15 min average

