

Air Quality Monitoring Station

KL-200



IDEAL FOR PM 2.5, PM 10, & GASEOUS POLLUTANTS FOR SIMULTANEOUS DISPLAY

TECHNOLOGY

The Air Quality station deliver precise measurement data in real-time for a wide range of air pollutants in a discreet and compact package. Measurable parameters include: Ozone (O₃); Nitrogen dioxide (NO₂); Nitrogen oxides (NO_x); Carbon monoxide (CO); Carbon dioxide (CO₂); Sulphur dioxide (SO₂); Volatile organic compounds (VOC); and particulate matter by mass (PM₁₀ and PM_{2.5}) or size (0.3 to 10 μm).

The KL-200, Air Quality Station meets the global trend towards real-time measurement of air quality in the micro environment. This is driven by the need to answer important questions in localized areas of human habitation using new intelligent measurement technology linked by inexpensive network communication systems.

SPECIAL FEATURES

- Multiple gas measurements
- Real-time data acquisition
- PC software included, compact and low weight
- Remote site operation
- Multi -point factory calibration
- Zero and Span calibration user facility
- Temperature and humidity sensors
- Particle monitoring PM_{2.5}, PM₁₀, TSP*
- Wind speed and direction sensors*

APPLICATIONS

- Environmental traffic management
- Roadside and tunnel monitoring
- Urban air quality measurement : residential, schools, hospital
- Perimeter (fence line) and point source emissions monitoring
- Low cost air quality networks to support reference AAQM stations
- Long term air quality trend analysis

SPECIFICATIONS

Detectable gases / parameters	PM2.5 and PM10
Electronics / processor	Micro controller
Power supply	230 V AC
Display	Graphics LCD
Alarm	Adjustable LOW and HIGH
Output	Relays, 4 - 20 mA analog, RS 485, MODBUS
Technology	EC & IR for gases, LASER for PM
Resolution	0.01 µg/m ³
Accuracy	± 2 %
Response time	Sensor dependent
Operating temperature	0 - 55 °C
Sampling	Direct plug-in
Housing	Sheet steel (Standard Enclosure : MS Power coated Aluminium)
Weight	40 - 100 Kgs (Subject to configuration)
Gas treatment module	Sampling Pump 220 V AC (Optional)
Temperature	- 20 °C to + 100 °C
Humidity	0 - 100 % RH

GASES & RANGES

H ₂ S (EC)	: 0 - 25 PPM (0 - 15,000 µg/m ³)	NO (EC)	: 0 - 20 PPM (0 - 15,000 µg/m ³)
NO ₂ (EC)	: 0 - 20 PPM (0 - 25,000 µg/m ³)	O ₃ (EC)	: 0 - 02 PPM (0 - 3,000 µg/m ³)
CO (EC)	: 0 - 50 PPM (0 - 15,000 µg/m ³)	SO ₂ (EC)	: 0 - 20 PPM (0 - 30,000 µg/m ³)
CO ₂ (NDIR)	: 0 - 2,000 PPM, OC's (PID)	NMHC (PID)	: 0 - 150 PPM
	: 0 - 1 PPM	PM _{2.5} & PM ₁₀	: 0 - 10,000 µg/m ³