AQ-10 REAL-TIME AEROSOL SENSOR

.. for CONTINUOUS MONITORING of PARTICULATE AIR EMISSIONS



Model AQ-10, Air Quality Particulate Sensor, is a Versatile Transducer Designed to Continuously Monitor for the Presence of Airborne Particles. AQ-10 is calibrated for OSHA and EPA Regulations.

APPLICATIONS:

Monitor PM-10 emissions for EPA Title 1 compliance of the Clean Air Act

Continuous monitoring of particulate discharge from cyclones, bag houses or dust control devices

Multipoint monitoring of inplant dust generating processes

Activates air cleaners/ventilation systems

Continuous monitoring of inline filter integrity

Indoor air quality monitoring

Air quality in underground transportation systems

Aerosol expose studies

Dry solids process control & monitoring

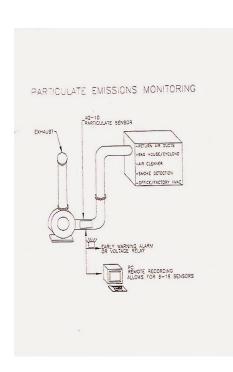
Can be used for all particulate air emissions monitoring applications

AQ-10 is suitable for monitoring particulate emissions from cyclones, precipitators, bag houses, or any dust control device. It is also ideal for monitoring air quality in underground transportation systems, ventilation systems, indoor workplaces, or any other application where immediate data on smoke, dust, fumes, or mists is needed. AQ-10 warns you of problems before they become trouble.

AQ-10 utilizes an optical layout consisting of an infrared emitter and silicon detector. As particles enter the sensing area an analog output, current or voltage, provides a signal which is proportional to the particle concentration. The signal can be sent to a recorder or central processing panel.

AQ-10 easily mounts on walls, inside air ducts or at strategic locations in dust collectors, bag houses, or any dust control device. Units can be configured in a single or multipoint system.

If your company generates or emits particulate matter, then the AQ-10 will enhance your air monitoring requirements and assist your company in complying with Federal Regulations.







...innovative technology In dust monitoring

FEATURES:

Easy Installation

Sensor mounts easily on walls, inside ventilation ducts or at strategic locations in dust collectors, bag houses, or cyclones.

Flexible Design

Designed for fixed point monitoring either as a single unit or part of a multipoint network monitoring system. The standard 4-20mA or optional 0-2V output can be sent to a remote location for signal processing.

Alarm Output

Full range alarm adjustment that provides a voltage output when preset level is exceeded. The alarm output can activate a relay for controlling fans, dampers, or other engineering controls.

Rugged Construction:

Constructed in lightweight aluminum case which is able to withstand harsh environments. The absence of moving parts and complete semiconductor design makes the AQ-10 largely unaffected by shock, vibration, temperature and humidity.

SPECIFICATIONS:

Sensing Range:

0.01-200 mg/m³ (Standard) 0.1-2000 mg/m³ (Optional) 0.001-20 mg/m³ Optional)

Particle Size Range: 0.1-50μm Precision: 0.2% of full scale @ 25°C Or +/-0.004mg/m³ (0.001 range)

Power: 110 or 220VAC

12VDC wall transformer (optional)

Signal Output: 4-20mA or 0-2 volts (optional)

Alarm Output: 7 VDC

Operating Temp: 0 to 50°C Humidity: 95% non-condensing Dimensions: 13X19X10 cm

Weight: 1.4 k

ACCESSORIES:

Calibration Standard Precipitation Cap Cleaning Kit

OPTIONS:

NEMA 4X Enclosure
Relay Alarm
Explosion Proof Enclosure
Nitrogen Purge
LCD Display
Data Acquisition Module
Wireless Signal Processing-Radio Modem Data
Transmission up to 1500 ft.