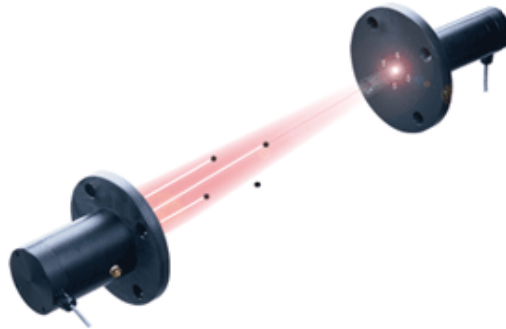


CPM® Constant Particulate monitors



Accurate Particulate Detection



The CPM particulate monitors operate on the principle of scintillation, the most reliable, accurate and advanced monitoring method available today, as is explained in the "How it works" section of this website.

There are other available monitoring technologies, all of which have serious shortcomings.

Benefits of CPM Technology:

- Designed to meet all applicable government particulate monitoring requirements
- Low maintenance instrument
- Helps you achieve ISO 14000 certification goals
- Detection of emissions for preventive maintenance
- Lower APC equipment maintenance costs
- Prevent damage to neighboring filters (baghouse installations)
- Prevents damage to downstream equipment

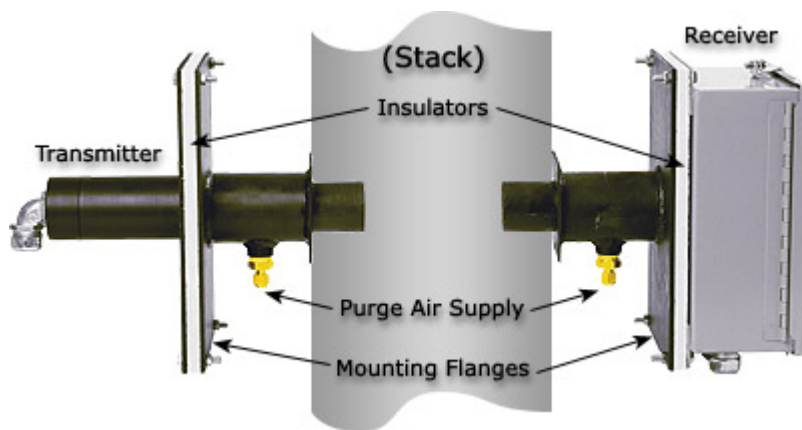
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All of the CPM models have been designed to comply with USEPA requirements and relevant European CE directives, including LVD and EMC, for product safety and performance.

How the CPM Works



When dust passes between the transmitter and receiver, the momentary blockage of light by the particles causes the receiver to see a modulating signal from the transmitter (see picture above). The amplitude of the signal modulation increases with increasing dust concentration.

The receiver senses the signal modulation and converts it to a dust concentration with the microprocessor. Therefore, signal modulation is proportional to dust concentration. The CPM responds only to particulate moving through ductwork or the stack.

Because it measures signal variations resulting from moving particles rather than from a diminishing intensity of the light beam, the CPM is relatively unaffected by particulate accumulation on the windows of the transmitter heads, optical misalignment, or aging of the transmitter and receiver.