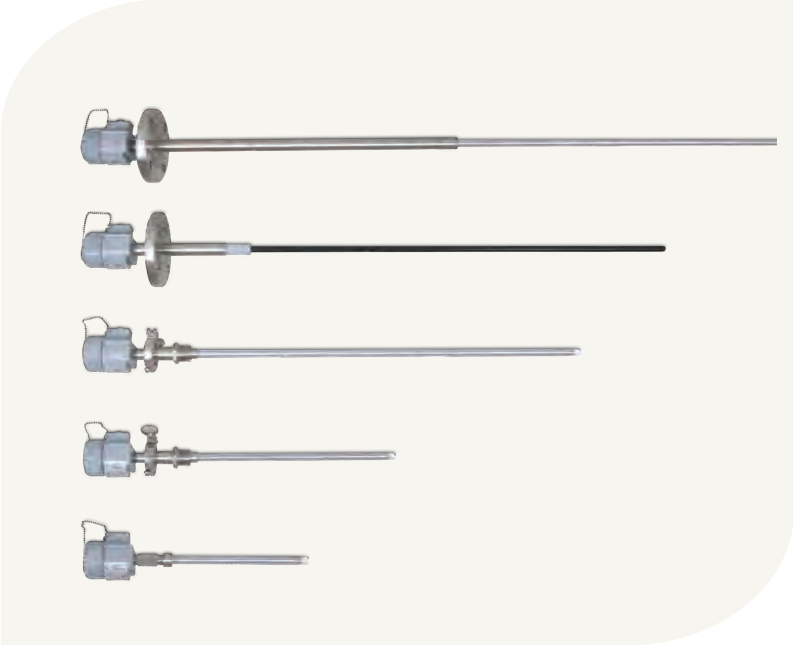
# PS 10 Series

Auburn
A Nederman Company

## Particulate Sensors for Single Point & Network Monitoring



## Precision Monitoring

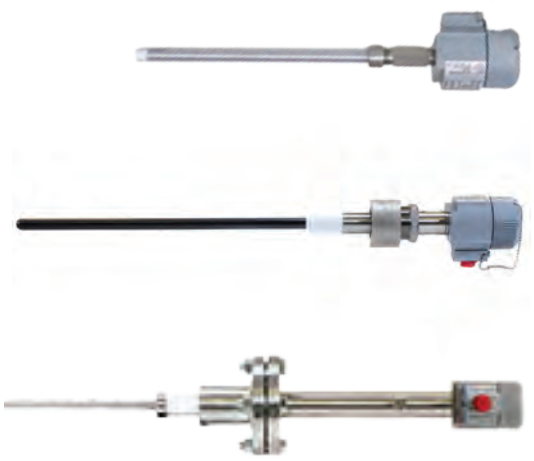
- Robust Passive Design
- Reliable and Durable
- Options to Meet a Variety of Process Conditions
- Heat and Vibration Resistant
- Simplified Integration with a Variety Products

The PS 10 series is designed for reliable and precise dust monitoring in challenging industrial applications. With advanced technology and user-friendly features, the PS 10 series supporting optimal performance and efficiency in dust management.

### Requirements

Based on your application requirements, the electronics paired with the PS 10 sensors will vary. Please refer to the back of this sheet and schedule a consultation to design the system that meets your specific needs.

## PS 10 Models



### PS 10 – S

**Basic**

This standard sensor is designed for easy install and reduced maintenance requirements.

### PS 10 – HP

**High Performance**

This high-performance sensor designed for industrial applications with a wide variety of mount and sensor configurations to meet your process requirements.

### PS 10 – XD

**Extreme Duty**

This extreme duty sensor for challenging process applications with high temperature and pressure requirements.

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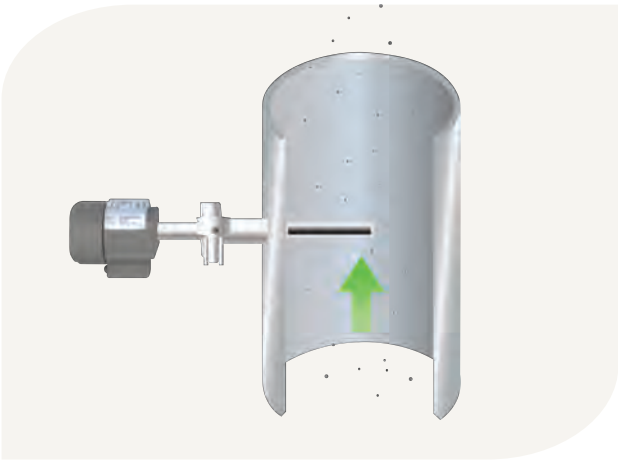
## Principle of Operation

The PS 10 Series of Particulate Monitors use induction sensing charge technology to detect particulates without direct probe contact. As particles pass by the sensor, they induce a charge, which is then converted into a measurable signal with high accuracy. This method accommodates larger sample sizes and is effective for a wide range of dust, including damp, sticky, and hazardous environments.



## PS 10 Particulate Sensors –

Offered with Remote Electronics for Complete Monitoring

### B-PAC™ Series

Multi Parameter Baghouse Performance and Analytical Control with advance automation.

### PM 100 Series

Continuous particulate monitoring for precise multi-point emission measurement.

### PM 1 PRO Remote

The remote PM 1 PRO configuration uses a PS 10 Sensor to relocate the controller away from the monitoring site.

### 3600 QAL1

Particulate monitor, certified for dust measurement in TUV and MCERTS-compliant applications.

## PS 10 Model Technical Summary

| General Technical | PS 10 - S | PS 10 - HP | PS 10 - XD |
|---|---|---|---|
| Process Connection | NPT, Quick Clamp | NPT, Quick Clamp, Flange | Flange |
| Wetted Materials | 316 L<br>Teflon<br>- | 316 L<br>Hastelloy C<br>Teflon | 316 L<br>Hastelloy C |
| Max. Process Temperature | 500 °F<br>(260 °C) | 500 °F<br>(260 °C) | 1650 °F<br>(898 °C) |
| Max. Process Pressure | 10 PSI (0.69 bar) | 100 PSI (6.9 bar) | 200 PSI (14 bar) |
| Max. Probe Length | 36 in (914 mm) | 72 in (1828 mm) | 36 in (914 mm) |
| Enclosure Rating (explosion proof available) | NEMA 4X/IP66 | NEMA 4X/IP66 | NEMA 4X/IP66 |
| Hazardous Area Rating | Class II Div. II (Zone 22) | Class I Div. I (Zone 0/22) | Class I Div. I (Zone 0/22) |

**Boost Your Business – Request a Consultation Now**

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