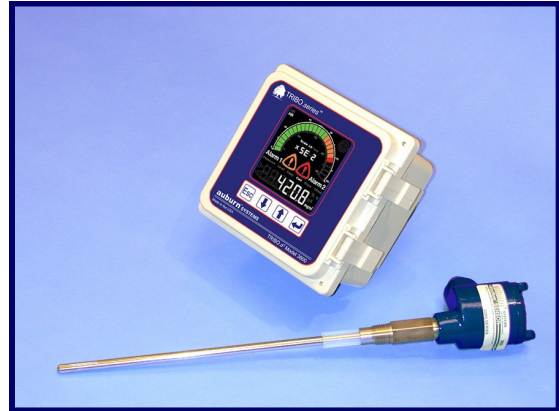




TRIBO.dsp U3600 is an innovative, self checking, particulate monitor ideal for dust collector compliance and maintenance applications. The advanced unified DC/AC design, with flexible scaling and alarm features, also allows the U3600 to be used for process particulate flow applications.

The U3600 provides a 4-20mA output and two independent SPDT relay contacts for alarm purposes. The easy-to-read, four color screen for real-time emission levels and alarm status is continuously on display. An optional digital output (Ethernet/IP, Modbus TCP) is available for direct connection to plant network systems (PLC's etc.) or bag leak detection systems managed by TRIBO.vision software.



Easy-to-Read Screen

TRIBO.dsp U3600 Features:

- Wide dynamic range, used to monitor flow or emissions applications
- Continuous 4-20 mA output
- Two (2) independent relays for alarm purposes
- Signal can be calibrated to display mg/m<sup>3</sup>
- No zero or drift adjustments required
- Automatic probe contamination check
- Password protection

About TRIBO.dsp Technology

The TRIBO.dsp U3000 series includes an advanced operating platform, which incorporates more than a quarter century of Auburn's electrostatic particulate measurement experience. The TRIBO.dsp series unifies DC impaction (triboelectric) and AC (induction) flow signals for superior accuracy, reliability, and repeatability. This proprietary platform has proven to be more stable and accurate than AC-only, induction, and electrodynamic detectors.

TRIBO.dsp Technology

- Unified AC/DC signal processing is more accurate
- Superior signal filtering eliminates electrical noise interference for stable measurement
- Widest dynamic range and highest resolution for more process applications

Competition's Technology

- Isolated AC or DC only signal processing is less accurate
- Inferior signal filtering creates instability due to factory floor electrical noise
- Limited dynamic range and resolution is unsuitable for many process applications



U3600 ELECTRONICS SPECIFICATIONS	
Electronic Enclosure	Polyester NEMA 4X with 3 or 4 3/4" conduit fittings
Power	85 to 260 VAC (12 VDC or 24 VDC optional)
Power Consumption	5 watts maximum load
Operating Temperature	-22° - 185° F (-30° - 85° C)
Humidity Range	0 - 95% non-condensing
Hazardous Rating	Designed intrinsically safe
Dynamic Range	1 pA - 10,000,000 pA - Standard; 0.1 pA - 1,000,000 pA - Optional
Resolution/Precision (pA)	1 pA Standard; 0.1 pA Optional
Sensitivity Range	Typical .0005gr/dscf (1mg/m <sup>3</sup> ) concentration detectable
Output	2 SPDT relay 5 amp @ 28 VDC or 250 VAC 100VA 2 independent alarm set points, high or low (0 -100%) 2 independent alarm time delays (0 - 999 sec.) Isolated 4-20mA compatible loop or self-powered network, with user selectable scaling Industrial Ethernet/IP and Modbus TCP optional
Display	3"x3" 4-color LCD, 8 decade log or 0 - 100% analog gauge, 6-digit display, dual alarm indicators
Other Features	Password protection for user settings, user selectable calibrated (mg/m <sup>3</sup> ) mode Automatic contamination check, Unlimited scaling options
U3600 SENSOR SPECIFICATIONS	
Remote Sensor Enclosure	NEMA 4
Sensor Probe	Probe - 316 stainless steel (standard); other materials available
Wetted Metal Parts	All others - 303 stainless steel minimum grade
Insulation	Extended High Performance (PFA)- standard, -40° - 475°F (-40° - 240°C) Ceramic (High Temperature or Pressure) -40° - 1000°F (-40° - 540°C) Consult factory or your local representative for proper recommendations
Probe Insertion Length	Standard probe lengths: 3, 6, 12, 18, 30, 36 inch (7.6, 15.2, 30.5, 45.7, 76.2, 91.4 cm) (specify to reach approximately mid-duct or further)
Installation	Weld the supplied fitting into the pipe or duct and insert sensor
Remote Sensor Cable	Special coaxial cable; temperature range: -60° - 400°F (-50° - 200°C) Maximum distance: contact factory
Wiring Connections	¾ inch NPT female conduit fitting
Pipe/Duct Connections	½ inch NPT male fitting or 1" quick release ferrule
Options	Wire rope sensors; In-line ring sensors; Venturi (fugitive) dust sensors

We are confident we can satisfy your monitoring application or technical support needs. For additional information or to request a quote, please contact us or visit [www.auburnsys.com](http://www.auburnsys.com).

**Emissions Monitoring**

- Bag Leak Detection
- Dust Collector Maintenance
- Product Loss Prevention
- Maintenance Reduction
- Equipment Protection

**Process Applications**

- Process Optimization
- Particle Flow Velocity
- Gravity Feed
- Injection Flow
- Material Flow Control