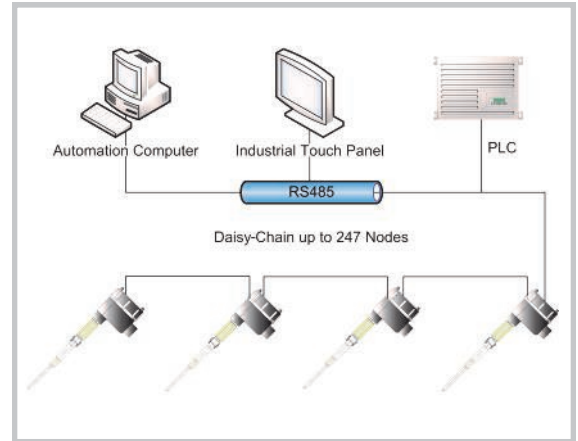
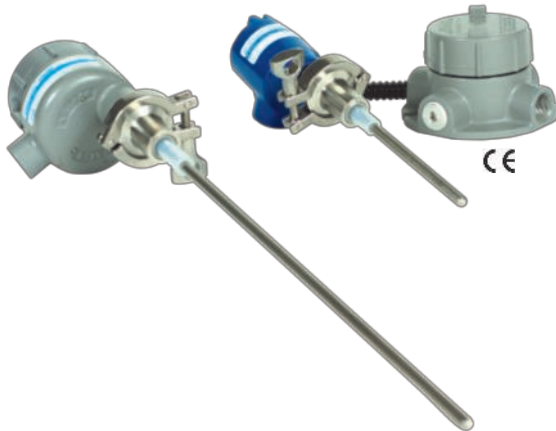


U3300 incorporates a unique design for multi-point applications where minimal installation costs are essential. Incorporating an easily expandable daisy-chain design, it is suitable for small or large multi-channel dust monitoring applications. The simple design requires no field set-up or periodic adjustments to the unit and is virtually maintenance free. The RS-485/Modbus RTU field bus communication is compatible with most PLC and generic OPC drivers, making it a versatile tool for integrating to existing data management systems, or creating a separate stand-alone system with the capability to include other monitoring parameters over the same network.



Features of the U3300

- RS-485/Modbus RTU field bus communication, compatible with most PLC and generic OPC drivers on the market
- Unit configuration and adjustment done remotely via field bus
- 4-wire connection, easy daisy-chaining for multi-channel installation, dramatically reduces installation costs
- Widest performance range available, use for flow or emissions applications
- No operator drift or zero adjustments required
- Automatic probe contamination check



Applications for the U3300

- Emission Monitoring
- Bag Leak Detection
- Dust Collector Maintenance
- Product Loss Prevention
- Equipment Protection
- EPA/MACT Compliance
- Process Monitoring
- Process Optimization
- Gravity Feed
- Injection Flow
- Material Flow Control
- Flow/No Flow Detection

TRIBO.dsp U3000 Series


Auburn's TRIBO.dsp U3000 series of electrostatic/triboelectric bag leak detectors, emission monitors, and solids flow monitors effectively measure dust emissions and dry solids flow from a wide variety of industrial processes.

TRIBO.dsp's Working Principal:

As dust particles collide with, or closely pass by a probe, charge transfers occur. TribO.dsp series products detect the signal created by the changes in particulate concentration, as in the onset of a bag leak or an increase or decrease in flow. Unlike monitors that use only the DC or only the AC induction signals, thereby using only a portion of the complete electrostatic signal, TRIBO.dsp unified 3000 series combines the benefits of each method, providing the user with a superior reliable and repeatable signal, with electrical interference resistance - even in harsh industrial environments. They can activate operational functions such as alarms and relays or can generate continuous 4-20 mA or digital signals for trending and recording purposes.

TRIBO.dsp U3300TM

ELECTRONICS SPECIFICATIONS

Electronic Enclosure	Cast aluminum, electrostatically applied powder coating, equivalent NEMA 4X
Power	12-32 VDC
Power Consumption	0.5 Watt
Operating Temperature	-40° - 185° F (-40° - 85° C)
Humidity Range	0 - 95% relative; non-condensing
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	Concentrations as low as .005mg/m ³ have been detected
Output	RS-485 / MODBUS-RTU
Approvals	CE Approved 

SENSOR SPECIFICATIONS

Remote Sensor Enclosure	Cast aluminum, electrostatically applied powder coating, equivalent NEMA 4X
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° - 450°F (-40° - 232°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 (other options available)
Options	Wire Rope Sensor; In-Line Ring Sensor; Ambient Fugitive Dust Sensor

