



## Continuous Dry Solids Flow Monitor

Auburn's **Triboflow** Model 2601 provides a reliable and repeatable means to continuously monitor the flow rate of dry solids.

The 2601 *directly* monitors the flow of solids not just presence. As particles in a flow stream rub or collide with the sensor, an electrical signal is generated due to the triboelectric effect (frictional electrification). As the number of collisions changes, so does the signal. The highly repeatable output can be instantaneous or dampened, while the sensitivity can be adjusted for low or high flow rates.

The 2601 has a 0-100% meter and a 4-20mA continuous output. The 4-20mA signal can be interfaced with chart recorders and computers, or it can provide feedback control to other devices, such as feeders. There is also a relay contact with an adjustable set point for sounding an alarm or stopping the process.

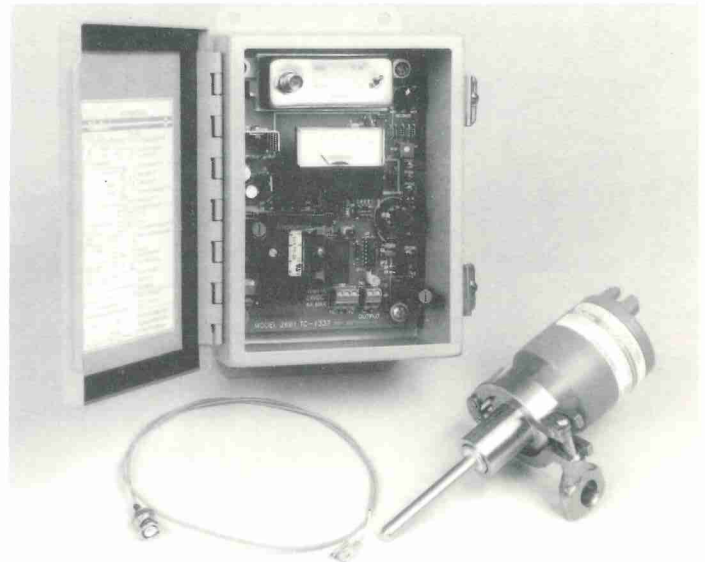
The intrinsically safe designed **Triboflow** is available with a wide variety of rugged sensors. For most applications, stainless steel or tungsten carbide probes are used. For small tubing, non-intrusive ring sensors can be supplied for many applications. All sensors feature no moving parts, no electronics, and no alignment.

### Applications

- Proportional flow measurement of pneumatic lines, injection lines, eductors and spray nozzles.
- Flow trend monitoring of screw feeder outlets and gravity chutes.

### Typical Solids

Superabsorbents, catalysts, polyethylene pellets, lime, food additives, pharmaceutical ingredients, blasting powders, and more.



### SPECIFICATIONS:

#### SENSOR:

Temperature Range: -40° to 300°F — Teflon Insulation (Standard)  
-40° to 1000°F — Ceramic Insulation (Optional)

Pressure Range: 30 psi (Standard), 2,000 psi (Optional)

Wetted Metal Parts: 316 Stainless Steel (Standard)  
Tungsten Carbide or Inconel (Optional)

Insertion Length: 1/2 inch (Standard)  
3, 6, 12 or 18 inch (Additional)  
Other (Special)

Enclosure: NEMA 4X (Standard)

Hazardous Rating: Designed Intrinsically Safe for Class I, II, III in Division 1 & 2, Groups A, B, C, D, E, F, G

#### ELECTRONICS:

Temperature Range: 0° to 120°F (Operating)  
-40° to 160°F (Storage)

Humidity Range: 0 to 95% Relative Non-Condensing

Outputs: 4-20mA Non-Isolated (Standard)

0-100% Meter (Standard)

0-10V (Optional)

Relay Contacts: SPDT 5 A @ 28 VDC or 250 VAC Resistive  
(adjustable for threshold detection)

Power: 105 to 130 VAC 50/60 Hz (Standard)

210 to 260 VAC 50/60 Hz (Optional)

5 Watts Maximum Load

Response Time: (Maximum Input Change) .5 to 30 Seconds, Customer Adjustable

Enclosure: NEMA 12 (Standard)

NEMA 4, 7/9 (Optional)

#### CONNECTIONS:

Process/Sensor: 1/2 inch NPT Male Fitting or Quick Release Clamp

Sensor/Electronics: Special Low Noise Coax Cable 300 feet Max.

Cable Temperature Range: -60 to 400°F (Standard)

Cable above 400°F - Contact Factory

#### INSTALLATION:

Weld a half-coupling or the quick release ferrule over a hole in the side of the pipe or duct. Screw in or clamp the sensor in place. (Please refer to manual for details.)

\*Patented