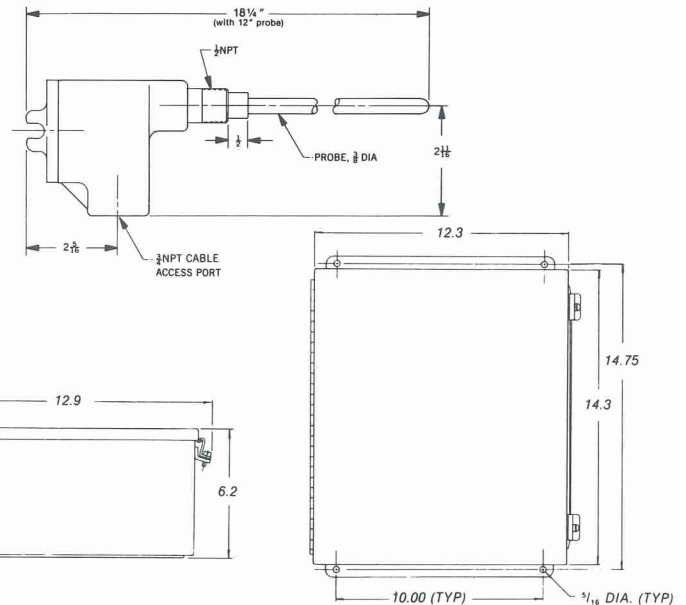




Higher Technology and Lower Cost Come to Flow Blockage Detection



SPECIFICATIONS:



The **Triboflow** Flow Blockage Detectors are the only flow monitors available that detect blockages and upsets through Auburn's unique triboelectric technology. Now the **Triboflow** Model 2100-1 brings this advanced technology with lower cost to all types of solids flow monitoring applications.

The Model 2100-1 is the multichannel version of the **Triboflow** Model 2200-1 Solids Flow Detector. The multichannel Model 2100 permits the use of six, eight, or ten sensors to monitor similar applications from one set of electronics, thus substantially reducing per point costs.

The **Triboflow** Multipoint Model 2100-1 continuously monitors each sensor output measuring an electrical charge transfer generated when particles in the flow stream collide with **Triboflow's** probe. This charge transfer — known as the triboelectric effect — occurs when these particles strike the probe and is continuously monitored as a current. The level of this signal is monitored against a preset and adjustable norm. Any significant loss of this signal, caused by a loss of flow, will trigger a contact closure that activates an alarm.

This unique and highly reliable method allows prompt warning of flow disruptions. The Model 2100-1 employs a separate channel to monitor each sensor, allowing the characteristics of each channel to be tailored to the needs of that particular sensor.

SENSOR:

- Number of Sensor Points: 6, 8, or 10
- 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 (Optional)
- Insertion Length: 1/2 inch (Standard)
- 3, 6, 12 or 18 inch (Additional)
- Other (Special)
- Hazardous Rating: Intrinsically Safe for Class I, II, III in
- Division 1 & 2, Groups A, B, C, D, E, F, G
- (FM and BVS Approved)

Enclosure: NEMA 4 (Standard)

ELECTRONICS:

- Temperature Range: - 10 to 145°F (Operating)
- 40 to 160°F (Storage)
- Humidity Range: 0 to 95% Relative Non-Condensing
- Relay Contacts: DPDT 5 A (for each point) @ 28 VDC or 250 VAC Resistive
- Power: 105 to 130 VAC 60 Hz (Standard)
- 210 to 260 VAC 60 Hz (Standard)
- 15 Watts Maximum Load
- Response Time: (Maximum Input Change) .5 to 20 Seconds, Adjustable
- Enclosure: NEMA 12 (Standard)
- NEMA 4 (Optional)
- NEMA 7/9 (Optional)

CONNECTIONS:

- Process/Sensor: 1/2 inch NPT Male Fitting
- Sensor/Electronics: Special Low Noise Coax Cable 200 feet Max.
- Cable Temperature Range: - 60 to 160°F (Standard)
- 60 to 400°F (High Temperature)
- Cable Above 400°F—Contact Factory

INSTALLATION:

Weld a half-coupling over a single 3/4" hole in the side of the pipe or duct and screw in the sensor until the insulator protrudes slightly into the flow stream.

Patents pending

Typical **Triboflow** Industries

- ☛ Chemical Processing
- ☛ Polymer Manufacturing
- ☛ Pharmaceutical Manufacturing
- ☛ Grain Handling
- ☛ Food Processing
- ☛ Forest Products