The leader in ultrasonic airflow technology providing highly accurate measurements for velocity, direction and volume of air movement in demanding mining environments.

Use FlowTRAX as part of an air quality management system for ventilation control in underground mines. FlowTRAX gives you access to primary and auxiliary fan airflow as well as drift and tunnel airflow monitoring.
Drift Sensor
Used for ramps, drifts, travel ways, shafts and raises


FEATURES

- Ultrasonic time of flight technology in real-time with continuous monitoring
- Digital signal processing, Modbus RTU and analog 4-20 mA output.
- Advance detection of false readings and sensor obstructions caused by moving vehicles and personnel
- Robust design capable of operating under extreme temperature and harsh industrial conditions

BENEFITS

- Robust, rugged, and non-corrosive design (not affected by temperature, humidity, pressure or dust)
- Simple installation - easy configuration and quick installation reduce project costs and start-up times
- Maintenance free - no moving parts virtually no calibration
- Accurate, bi-directional readings, cross-sectional velocity averaging measurements, predominant to single point measurement
- Reliable, designed to perform in extreme noise and hi-velocity applications
- Versatile, pre-programmed with multiple configuration and application options

THREE MODELS
A VARIETY OF VENTILATION MONITORING APPLICATIONS

Drift Sensor
Used for ramps, drifts, travel ways, shafts and raises

Fan Sensor
Used for surface Intake and exhaust fans

Stainless steel mounting plate designed for specific fan application with a ball and socket sensor assembly for easy alignment and quick installation.
IDM Sensor

*Used for Auxiliary Ventilation for Fan and Ducts*

Pre-wired cable assembly kit. Modular design to meet various application demands. Ball and socket design for easy alignment and quick installation with square or round ducting.

ACCESSORIES

Our systems are supplied with multiple configuration options for a simple installation

- Pre-configured
- Cable set
- Stainless steel mounting plate
- Stainless steel, polycarbonate or aluminum sensor brackets
- Handheld programmer

OPERATION

The Accutron FlowTRAX Airflow Monitor is designed to measure airflow velocity and volume in a variety of mining and tunnel applications. This ultrasonic, time-of-flight instrument is designed to measure flow in underground tunnels in addition to primary and booster fan flow output.
<table>
<thead>
<tr>
<th>Process</th>
<th>Measuring Units</th>
<th>Airflow</th>
<th>Measuring Range</th>
<th>Drift</th>
<th>Measuring Range</th>
<th>Accuracy</th>
<th>Face to face Distance</th>
<th>Measuring Range</th>
<th>Accuracy</th>
<th>Face to face Distance</th>
<th>Measuring Range</th>
<th>Accuracy</th>
<th>Face to face Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Units</td>
<td>m/s, ft/min,</td>
<td>m3/s, cfm, kcfm</td>
<td>0 to &lt; 40 m/s</td>
<td>2% F/S or ± 0.05 m/s (whichever is greater)</td>
<td>0 to &lt; 40 m/s</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>(no practical limit)</td>
<td></td>
<td>(no practical limit)</td>
<td></td>
<td>8 ft min</td>
<td>8 ft min</td>
<td>2 ft min</td>
<td>8 ft max</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical ratings</th>
<th>Power In</th>
<th>Power Consumption</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 VDC</td>
<td>&lt; 100 watts</td>
<td>700 Ω Max loop resistance</td>
</tr>
<tr>
<td></td>
<td>110-240 VAC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Communication Interface</th>
<th>Serial</th>
<th>Analog outputs</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modbus RTU RS485</td>
<td>(1) 4-20 mA</td>
<td>Modbus TCP with CommTRAX, Ethernet IP*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
<th>Enclosure</th>
<th>Operating Humidity</th>
<th>Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non-corrosive IP66 NEMA 4X with lock hinges</td>
<td>0% to 90%RH</td>
<td>-40°C to 70°C</td>
</tr>
</tbody>
</table>