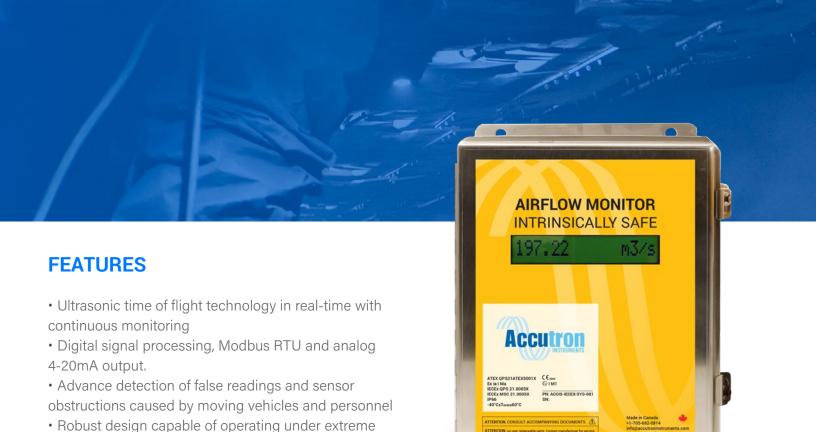




Accutron IS™ for Coal Mines

Intrinsically Safe Ultrasonic Airflow Monitor.

The leader in ultrasonic airflow technology provides highly accurate measurement of velocity, direction and volume of air movement in demanding underground coal mines.



SYSTEM INCLUDES

- IP66 rated stainless steel control transmitter w/ LCD display
- Ultrasonic transducers (2)
- 100 foot sensor cables w/ connectors

temperature and harsh industrial conditions

• Drift or Fan mount system

ACCESSORIES

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

- · Pre-configured
- Cable set
- Stainless steel mounting plate
- · Stainless steel sensor mount

OPERATION

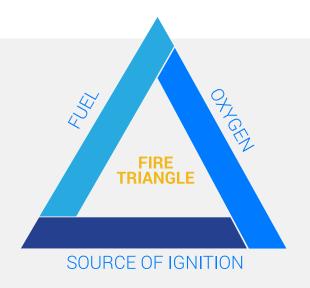
The Accutron IS™ Airflow Monitor is designed to measure airflow, velocity, and volume in underground coal mines. This ultrasonic, time-of-flight instrument is designed to measure flow in underground drifts in addition to primary and booster fans.



Use Intrinsically Safe Accutron IS[™] as part of an air quality management system for ventilation control in underground coal mines.

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 and virtually no calibration
- Accurate, repeatable, bi-directional readings, cross sectional velocity averaging measurements, predominant over single point measurement
- Reliable, designed to perform in extreme noise and hi-velocity applications
- · Versatile, pre-programmed with multiple configuration and application options



INTRINSIC SAFETY

Intrinsic safety is built in to the design of any electrical equipment designed for use in hazardous locations. As such the Accutron IS™ is suited for the conditions within a coal mine.

By definition intrinsically safe is the requirement that the device not emit the energy required to ignite combustible materials. Methane and other gas releases can cause a great concern when ignited, though with an IECEx approved Accutron IS™ you can assure yourself that you have one fewer ignition point.

ACCUTRON IS AIRFLOW MONITOR SPECIFICATIONS

TRANSDUCERS			
Drift	Measuring Range	Accuracy	Face to face Distance
	-40 m/s to +40 m/s (no practical limit)	2% F/S or \pm 0.05 m/s (whichever is greater)	8 ft min 60 ft max
Fan	Measuring Range	Accuracy	Face to face Distance
	-40 m/s to < 40 m/s (no practical limit)	2% F/S or \pm 0.05 m/s (whichever is greater)	8 ft min 30 ft max
TRANSCEIVER			
Electrical ratings	Power Consumption	Power In	
	< 3.3 watts	12.6 VDC	
Communication	Serial	Analog Outputs	Optional
	Modbus RTU RS485	(1) 4-20 mA	Modbus TCP with CommTRAX EtherNet/IP
Physical	Enclosure	Operating Humidity	Certifications
	Non-corrosive IP66 NEMA 4X with lock hinges	0% to 90%RH	IECEx QPS 21.0003X IECEx MSC 21.0005X ATEX QPS21ATEX5001X
	Safety Ratings	Operating Temperature	
	Ex ia I Ma	-40°C to 60°C	
Measuring Units	Airflow	Volumetric Flow	
	m/s, ft/min	m3/s, cfm, kcfm	







www.accutroninstruments.com