The MAQS is an affordable and complete underground mine ventilation monitoring station. Monitor your working environments, integrate and communicate with remote devices, automate your ventilation process.

This flexible, low-cost instrumentation is designed to function with your existing monitoring software applications and communication infrastructure. Automate your underground mine processes, optimize ventilation, and improve health and safety all while reducing energy consumption.
A comprehensive ventilation monitoring station, the all-in-one instrumentation solution built for underground mines.

Today’s mines require comprehensive systems to monitor and control their ventilation processes with the flexibility to interface with any application and communication structure. Implementation of VOD (Ventilation On Demand) or any level of ventilation automation while relying on accurate and reliable field data is a crucial element of mining operations.

Our Mine Air Quality Stations (MAQS), equipped with industry leading Accutron ultrasonic airflow sensors, offer all the features necessary with multiple communication options to meet the demands of your mine. From surface fan monitoring to complete environmental monitoring underground, MAQS are simple to deploy and are the most cost effective and reliable solution in the industry.

**Monitor multiple variables with a single system**

The MAQS gives maximum flexibility, simultaneous monitoring in addition to a variety of control and communication options

**Easy installation. Simple operation.**

Accutron Instruments are shipped ready for use. Preconfigured with optional mounting plates and support brackets

**REAL-TIME DATA ALLOWS YOU TO OPTIMIZE YOUR VENTILATION SYSTEM**

**SIMULATION MODELS ALLOWING YOU TO INCREASE PROFITABILITY.**
PROCESS INPUTS
- Airflow
- Temperature
- Humidity
- Pressure
- Vibration
- Toxic Gas
- DPM

DATA AND NETWORKING
- 2 GB data storage
- Ethernet
- Modbus TCP
- Modbus RTU
- Digital I/O
- Analog I/O
- Leaky feeder

APPLICATION AND COMMUNICATION STRUCTURE
COMPLETE UNDERGROUND MINE VENTILATION MONITORING STATION.

MAQS CONFIGURATION

I/O TRAX™
- Sensors (Gas, Temp, Pressure, Airflow)
- Devices (VFD, Actuators, Doors, Dampers, PLC) Relays
- Switches (Starters, Colls, Actuators, Panels, Disconnects)

COMMTRAX™
- PLC
- SCADA Monitoring

FLOWTRAX™
- Belden 9535
- Ultrasonic Airflow
- Fan
- Drift
- Industrial Duct Monitor (IDM)
- Long Range (LR)

CLIMATRAX™
- Probe
- Temperature
- Pressure
- Humidity
- Wet bulb

Modbus RTU
- 110-240 VAC
- 15-30 VDC

Remote Sensors (Toxic gas, etc.)
MINE AIR QUALITY AND VENTILATION MONITORING

World leading ultrasonic airflow monitors

Four real-time “time of flight” models for complete mine airflow monitoring - Drift/ Tunnel / Raise / Surface fan / Industrial duct / Booster fan

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
- Hand-held programmer

MAQS MODULES

FLOWTRAX™
Ultrasonic Airflow Sensor
Air velocity and volumetric flow in fans, ducts and tunnels

CLIMATRAX™
Multivariable Environmental Sensor.
Temperature, humidity, pressure, air density, heat stress and more

COMMTRAX™
Port Forwarding Protocol Translator
Link between your instruments and your SCADA Modbus RTU to Modbus TCP with 2GB data storage

IOTRAX™
Digital & Analog I/O module
Connect, monitor, control field-remote devices
Four digital and Analog inputs (4-20mA)
Two relay alarm outputs

Accutron

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