

# New!

## Introducing the Accutron Plus, advanced new technology for mine airflow sensing.

Our standard “Accutron B” just got better!

### Introduction:

The Accutron Plus represents the latest generation in ultrasonic airflow sensing for mines.

The standard control unit has been redesigned making installation easier than ever. The control unit contains a new digital technology, called DSP\* which is used to process the ultrasonic signals and calculates the airflow. A new handheld programmer makes initial programming easy, with a menu driven display.



Accutron Plus control unit

### About the unit:

The Accutron Plus is a compact rugged instrument specially designed to measure airflow in mine tunnels. The system consists of 3 units, a control unit and two transducer assemblies that are aimed at each other across the mine rifts or shaft to intersect the airflow diagonally. The control unit maybe located in a nearby instrument room or suitable place. Ultrasonic pulses travel between the transducers and transit times are proportional to the airflow. The result is more accurate airflow readings that can be obtained using traditional anemometers such as venturi tubes, hot wire, and rotating vanes.

Also, since the Accutron samples moving air across the drift, we obtain a more representative reading since airflow can fluctuate widely from place to place within the drift. In addition, the Accutron is immune from interference from moving conveyances in the shaft or from vehicles in the drift.



### Installation is easy!

Installation of the Accutron Plus is a straightforward operation; the sensors are installed in a convenient location to intersect the airflow at an angle typically between 30 and 60 degrees. The sensors are aligned toward each other and then secured. Measurements are made concerning the geometry of the setup, and these numbers are entered into the control unit via the laptop computer. Then, simply select the units you want, 40-20 full-scale value (if used), and it's done!

The Transducer Assembly is of rugged design for severe environments.



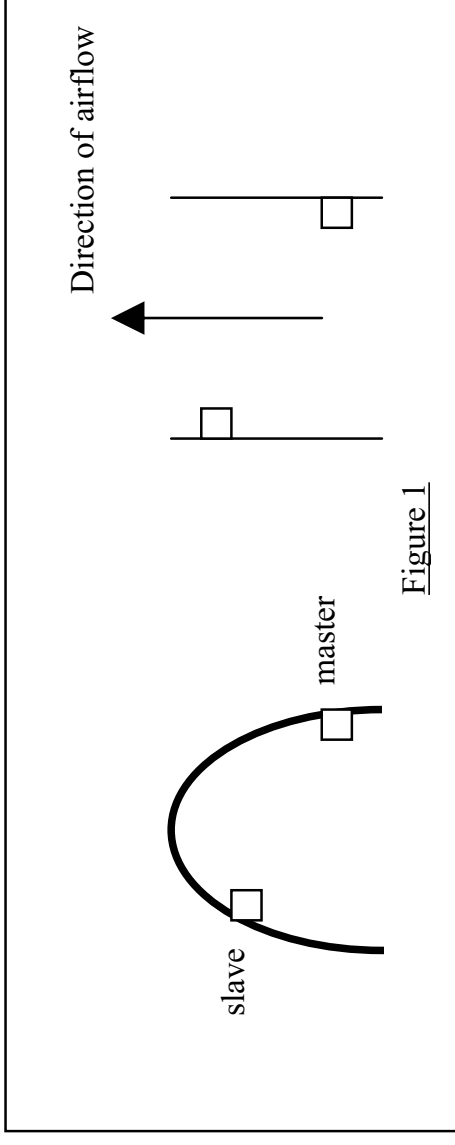
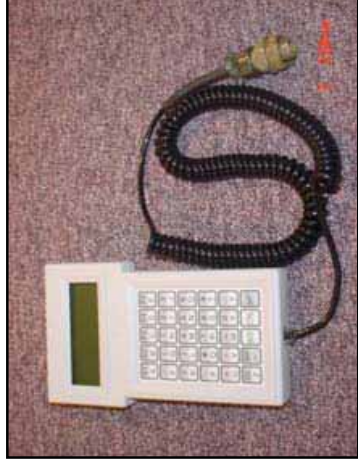


Figure 1

Sketch illustrating installation in mine tunnel

### Rock-solid stability

Once the unit is installed and programmed, no further adjustments or calibration are ever required, thanks to Accutron's advanced digital technology.



A compact handheld terminal is used for initial programming

### **Check these advanced features**

- Display in any units (CFM, M/S, KCFM, M<sup>3</sup>/S etc.)
- Rugged construction
- Big, bright LED display readable from 20 feet.
- 4 – 20 mA link for “online” operation
- built in diagnostics
- ability to detect negative airflows
- setup and programming via handheld programmer
- next generation digital technology