

PMA-2008 POCKET MINING ANEMOMETER

The **PMA-2008** Pocket Mining Anemometer is the second generation of our battery-powered electronic anemometer for use in underground mining. The **PMA-2008** makes taking ventilation readings even easier than before!

Enhancements make the PMA-2008 Anemometer better... Audible signal lets you know when the 60-second count has started, counting and ends. The LCD display can be programmed to read in metric mode in seconds.

- **Simple Two-Push Button Control...** Rubber-covered push buttons on the **PMA-2008** allow you to switch between two modes, and start and stop readings. An instantaneous, feet-per-minute readout can be selected, or a timed 60-second count of feet-of-air. The **PMA-2008** Anemometer can also be user programmed to read in metric.
- **Leave Your Wristwatch On Top...** The **PMA-2008** includes a 60-second count of feet-of-air. Simply walk the **PMA-2008** across the entry and it automatically stops counting feet-of-air after 60 seconds. The count can be stopped for a partial reading. An audible alarm informs you when the count starts, stops and at 15-second intervals.
- **Quick Spot Checks...** With the **PMA-2008** in the instantaneous feet-per-minute mode, you can check air speeds behind line curtains, on longwall faces, over conveyor belts, anywhere you need to verify airflow.
- **Not Just Dustproof-Waterproof...** The **PMA-2008** will hold up in the mining environment. The unit can be submerged in water and, if dropped into a puddle or sump, will float.
- **No Calibration...** There are no adjustments or calibration required with the **PMA-2008**. Accuracy of the readings is dependent on a user replaceable impeller. After approximately 6 months of use, the impeller assembly is slid out of the **PMA-2008** housing and a new one is inserted in seconds. This assures precise readings with the **PMA-2008**.
- **Take Your Leather Pouch Off Your Tool Belt...** Every **PMA-2008** Pocket Anemometer comes with its own storage case and braided lanyard. A padded nylon carrying case with room for a replacement battery and impeller is an available option. Free up some space on your tool belt and put your old anemometer and leather pouch in the mining museum!



SPECIFICATIONS:

Performance

Operating Modes: Moving 3-second average speed mode and timed, 60-second linear feet or meters mode.

Units: Speed mode; feet per minute (fpm), meters per second [m/s]. Linear feet mode; feet (ft), meters [m]

On-Axis Accuracy: greater of $\pm 3\%$ of reading or \pm least significant digit

Off-Axis Response: -1% @ 5° , 2% @ 10° , -3% @ 15°

Calibration Drift: $<1\%$ after 100 hours use at 1400 fpm [9.5 m/s]

Minimum Speed: 60 fpm, [0.4 m/s]

Maximum Speed: 9999 fpm, [9999 m/s], display limit

Display

Type: Reflective, 4 digit, 0.36 in. [9 mm] digit height.

Resolution and Range: Speed Mode; resolution 1 feet per minute. (fpm), 1 meter per second [m/s], range of 9999 feet per minute (fpm), meters per second [m/s].

Linear Feet Mode; resolution 1 foot (ft), meter [m], range 9999 feet (ft), meters [m].

Update: 1 second

Other Functions

Buttons: Three sealed tactile rubber buttons control all functions.

Auto Shutdown: 30 minutes after last button press.

Battery: User-replaceable CR2032 coin cell. Typical life of 300 hrs.

Environmental

Sealing: Electronics enclosure IP67- water resistant to 3 ft. [1 m]. Floats

Shock: Drop tested to 6 ft. [2 m].

Operating Temperature: LCD and batteries, 0°F . to 130°F . [-18°C to 55°C]. Readings may be taken beyond these temperatures by exposing unit for minimum time necessary to take and record measurement.

Storage Temperature: Recommended -22°F to 140°F [-30°C to 60°C].

Physical

Impeller: 1 in. [25 mm] diameter, sapphire bearings. User-replaceable.

Case: Slip-on case prevents damage to display and moving parts.

Dimensions: Unit, 4.8 x 1.7 x 0.7 in. [122 x 42 x 18 mm]; Case, 4.8 x 1.9 x 1.1 in. [122 x 48 x 28 mm]; Lanyard, 10 in. [0.5 m].

Weight: Unit, 2.3 oz. [65g.]; Case, 1.3 oz. [37g.]

MSHA Approval # 18-A070014-0

Pennsylvania Approval # BFE 147-07

Made in the USA

Patented Product



Replacing the impeller restores the **PMA-2008**'s accuracy.



Each **PMA-2008** comes with a storage case & braided lanyard.