

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.



OPTIONAL CARRY CASE

This sturdy, padded nylon case lets an Anemometer be carried on a belt, overalls, etc. The top flap features a hook/loop closure and an open space to keep the anemometer at a continuous temperature ensuring accurate readings. The case has room for a pen/pencil, small flashlight, back-up battery and impeller if need arises to change either while underground.

(PMA -2008 Anemometer NOT included)

Since 1982, **Mine & Process Service Inc.** has been providing quality products with maximum value to the mining industry. The **PMA -2008** is just one of several leading edge products we offer to maximize safety and productivity in mines around the world.

The **doseBadge Dosimeter** makes noise sampling easy. Simple yet robust, the perfect way to implement and maintain a noise sampling program .

Mk7 Mining Lasers provide extremely straight entries at longwall as well as continuous miner operations. Totally eliminating slabbing and productivity robbing encroachment of longwalls during retreat.

MAX Helmets are keeping miners safer on longwall faces, continuous miner sections, rock dusting, road grading and shotcreting. Not just head and hearing protection . Full facial and respiratory too!

VISION Helmets assure eye protection is always there with your hard hat and no more lost safety glasses. At a level of comfort, in a low profile design, unavailable with typical helmets used in mining .



doseBadge DOSIMETER

Our **doseBadge** Dosimeter has taken away the hassles of noise readings. There are no bulky readers, cables or microphones. No external controls mean that those in charge of noise readings stay in control. The **doseBadge** is small enough to fit in the palm of your hand, and with its rugged metal enclosure, it can take the abuse in a mine that would damage other dosimeters. Approved as intrinsically safe by MSHA for gassy atmospheres.

Mk7 ALIGNMENT LASER

Our **Mk7** Lasers have been specifically designed for the demanding conditions that exist in tunnels, mines, and drifts. A wide variety of mounts and optical accessories are available for most projects. Two models are available: the **Mk7L** for distances up to approximately 1500 feet and the Type S for distances up to 750 feet. The Type S is approved as intrinsically safe by MSHA for gassy atmospheres.



TOTAL PROTECTION HELMET

Our **MAX** Fully-Integrated Helmet includes all the protection needed from the neck up; head, full eye/facial, hearing and dust protection in one package weighing less than a football helmet. Totally self-contained, it includes an internal, NiMH rechargeable battery pack. The unit utilizes a one-piece dust filter that can be changed in seconds. The **MAX** Helmet is approved as intrinsically safe by MSHA for use in gassy atmospheres and meets MSHA requirements for head protection. (The **MAX** Helmet is not an approved respirator.)

VISION HARDHAT

Our **VISION** Helmet features a custom -designed, fully retractable visor with side shields. The retraction mechanism allows the visor to fully retract into the helmet. The design allows the visor to pass over normal prescription glasses. A six-point cradle and standard sweatband provide comfort over hours of use. Optional hearing protection is available. Meets ANSI Z89.1-1997, Type I, Class C and Z87.1-1989 as required by MSHA.

