

PurgEye™ 100

WELD PURGE MONITOR™

COB
INDUSTRIES, INC.



COB Industries is proud to introduce the new PurgEye™ 100 as the newest, most advanced Weld Purge Monitor™ with new features and capabilities that place this monitor way ahead in the field of weld purge monitoring. The Argweld® product line is the only one to offer a complete “family” of Weld Purge Monitors™ for all applications and to suit every budget. With the addition of the exciting new PurgEye™ 100, the industry’s most popular line of purge monitors has raised the bar even higher with the latest in instrumentation and advances in technology.

The innovative **Push Button Auto Calibration** on the front of the PurgEye™ 100 allows the user to calibrate at atmospheric level and again at the lowest oxygen reading with just the push of a button and provides increased accuracy.

With tungsten inert gas welding (gas tungsten arc welding) of important joints in stainless steels and other

reactive metals, it is essential to know that the oxygen content in the welding volume has been reduced to a satisfactorily low level before commencing the weld. By using a proper Weld Purge Monitor™ the guesswork is eliminated and the welders can do their job with increased confidence and assurance of a good purge. Use the right tool for the job! Monitor includes:

- Push button “Auto Calibration” feature
- Low Battery Indicator
- Low Sensor Indicator
- Enlarged Screen and Larger Digits
- Tripod Mount
- Increased Sensor Reading Range
- Wrist and Neck Carry Strap
- Protective Rubber Housing
- Quick Connect/Disconnect Fitting for Gas Purge Tubing
- Automatic Sleep Mode When Not in Use



Tripod Mount

A rugged tripod mount has been integrated into the housing, which allows the PurgEye™ 100 Weld Purge Monitor™ to be firmly mounted on a tripod of your choice.

By mounting the instrument on a tripod, the welder can see the PurgEye™ 100 Weld Purge Monitor™ from any part of the working space. A range of tripods and other fixing devices are available on which you can mount and station your PurgEye™ 100.



Welding can begin once the desired oxygen level is achieved, so use a PurgEye™ Weld Purge Monitor™ everytime for a guaranteed accurate reading of oxygen to allow a weld start with minimal risk of oxidation.

Some Advantages and Key Features

Auto Calibration Feature

Calibrate your own monitor at any time without having to return it to the factory. Also, each time you weld to ensure that your readings are the most accurate possible.

The calibration facility even has the ability at the touch of a small button to calibrate both at atmospheric level of 20.94% and at 0.01% (100 ppm) level of oxygen.

Low Sensor indicator

You will never again be with an unusable monitor! The “low sensor level signal”, giving plenty of time to obtain a new sensor which you can simply fit and calibrate yourself.

Low Battery Indicator

Another ‘first’ in the design and manufacture of PurgEye™ 100 Weld Purge Monitors™ is the low battery indicator that appears in the corner of the screen at the appropriate time.

Automatic Sleep Mode

When the Monitor registers more than 20% oxygen for periods longer than 1 hour, it will automatically switch off to conserve sensor and battery life.

Extra Range

The PurgEye™ 100 Weld Purge Monitor™ accurately indicates oxygen levels down to 0.01% or 100 Parts Per Million (PPM).

Enlarged Screen

The new enlarged screen uses 24 mm size digits for easy viewing at longer distances from the work station. These digits are approximately 41% larger than other models.



Technical Data and Specification

The PurgEye™ 100 Weld Purge Monitor™ is shipped in an attractive, robust carry, presentation and storage case to maintain the instrument in good condition and to keep it together with all accessories.

The PurgEye™ 100 Weld Purge Monitor™ can be used with any pipe welding system, any weld purging chamber or weld purging enclosure.

The sensor is easy to replace and self calibrate using the advanced calibration features of the PurgEye™ 100 and the specially written algorithm that provides extreme accuracy at 0.1% where it is especially important for weld purging.

The PurgEye™ 100 Weld Purge Monitor can be used as a continuously reading instrument with free flow of the purge exhaust gas across the sensor, or as a sampling instrument with the hand vacuum pump and stainless steel probe assembly extracting samples from the purged volume, as and when desired.



Supplied with:

2 x AA Batteries

Stainless Steel Probe for sampling

2 meters of Sampling Hose

Sampling Bulb (vacuum pump)

Carry Strap for neck or wrist

User Instruction Book

Carrying Storage and Presentation Case



Specifications

PurgEye™ 100 Weld Purge Monitor™ Accuracy Range

Measuring Range: 0.01% - 20.94 % Oxygen
(100 ppm to atmosphere)

Accuracy: At oxygen level 20.0% = ± 0.2%
At oxygen level 2% = ± 0.02%

Size: 94 mm (top width)
58.5 mm (handle width)
199 mm high (from bottom to top of eyelet)
63 mm deep (with flow adaptor)
44 mm deep (without flow adaptor)

Power: Battery type 2 x AA (included)
Scale: LCD (Liquid crystal display) 24 mm
Ref: Old MKV Model 17 mm
41% increase in size

Weight: 0.210 kg



Accessories, Spares and Replacements

Gorilla Tripod

Camera Tripod

Sensor Removal Tool

Rubber Protective Housing



PurgEye™ 100 Weld Purge Monitor™ shown with Protective Rubber Housing available as an accessory



Product Codes and Sizes

PurgEye™ 100 Weld Purge Monitors™
Model Part Number API0100:

Dimensions with Carrying Storage Case

310 x 260 x 80 mm

Nett weight 0.870 kg

Gross weight 1.1 kg

Volumetric weight 1.0 kg

Instrument Weight 0.210 kg instrument only
(excluding Carry Case)

Customs Tariff for International Shipments around the World

European Customs Tariff: 9026 1059

International Customs Tariff: 9026 80 6000

United States Customs Tariff: 9026 80 6000



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1.800.431.1311
www.cob-industries.com

We also offer a number of other weld purging products.

Ask for details about:

Argweld® Inflatable Pipe Weld Purging Systems

Argweld® Weld Trailing Shields™

Argweld® Weld Backing Tape™

Argweld® Weld Purge Enclosures™

Argweld® Water Soluble Weld Purge Film™