

Oxygen Indicator

The Intercon Aero2-Mat 4115 Series of oxygen indicators accurately measures oxygen content down to 1 part per million (ppm) in a lightweight and sturdy design. Other oxygen indicators with a read-out capability of only 0.1% (1000 ppm) or even 0.01% (100 ppm) are not accurate enough to do most precision welding which is done below 70 ppm. This quality control is necessary, as discoloration due to high oxygen levels will limit corrosion resistance and lead to weld damage or even failure.

Benefits:

- No stabilization time required
- Useful for finding oxygen leaks
- Quickly establish weld parameters
- Portable: weighs 4.8 lbs
- With carrying case the total weight is 10 lbs



Features

The 4115 Series uses an efficient electrode and electrolyte solution to accurately measure rest oxygen contents. This allows the unit to read values from 100% (outside air) down to 1 ppm in a time frame of less than 5 minutes. We recommend continuous oxygen monitoring while welding to prevent quality failures due to a gas or purge problem. The oxygen indicator comes complete with a probe for root gap inspections. During butt welding constant air monitoring is accomplished with the bulkhead fitting supplied with the unit.

The Intercon 4115 Oxygen Indicator is instant on and does not required any warm-up time. The operating range is from 100% outer air to 1ppm Oxygen. The unit is accurate and completely portable requiring only a 110V connection (220V upon request). The complete Oxygen Indicator weighs 4.8 lbs. (10 lbs with standard equipment carrying case)

The Intercon 4115 Oxygen Indicator uses an electrode as well as electrolyte to electro-chemically determine the rest Oxygen rest value. This is an accurate and economical method.

Operation:

The 4115 is easy to operate. The outside air calibration should be adjusted to 100% via a supplied screwdriver. If the unit initially displays 99% and is not adjusted to 100%, the tolerance will then be 1% of the final value.

For example, if the final value is 40 ppm, the difference is 1% of 40 ppm which is 0.4% ppm. So a variance in the reading for the outside air results in only a very small change in the final ppm read-out. The actual internal unit calibration is factory set with certified gas and should never be adjusted. To get a reading, attach the supplied probe to the hose and turn the pump on. After use, turn pump off and return to case.

Optional bulkhead fittings are also available.

Model	4115B
Range 100% - 1 ppm	Yes
Audible & Visual Alarm	No
LCD Display	Yes
Printer Capability	No
Order Code	90000004
Replacement Parts	
Part	Part Number
Electrolyte	90000101
Diaphragm Cap	90000100
Dust Filter	90000102

Introduction:

Intercon Pipe Purging Systems can significantly reduce corrosion and oxides on the inside surface of pipe welds. Affected weld areas could be elbows, tees and flanges which are made of steel, stainless steel or alloys.

Purging Products:

Modular Series parts are non-dedicated, thus providing a degree of flexibility in utilization of the reuse some components over multiple pipe sizes.

1. Mini Purging System (½" to 1½" pipes)

The Intercon Mini-Purging System is a modular purging system. It is easy to use on straight or curved pipes with inside diameters from ½" to 1½" (15mm - 38mm).

2. Maxi Purging System (1½" to 13" pipes)

The Intercon Maxi-Purging Systems are a modular design for pipe inside diameters from 1½" to 13" (38mm – 325mm) for all types of application whether welding straight pipe, curved pipe, tees or flanges.

Dedicated Series are provided in kit form for specific pipe sizes where components cannot be mixed.

1. Dedicated Compact Purging System (6" to 20" pipes)

The new expanded Intercon Compact Purging System is further development of a dedicated Jumbo design for specific pipe sizes. The new range starts at 6" and continues up to 20". Larger units are available.

2. Jumbo Purging System (16" to 48" pipes) Jumbo Purging System (16" to 48" pipes)

The Intercon Jumbo-Purging System is a non-modular, dedicated design intended for pipes with a diameter larger than 16".

These purging units are designed to use inert gases. Never use a flammable gas!



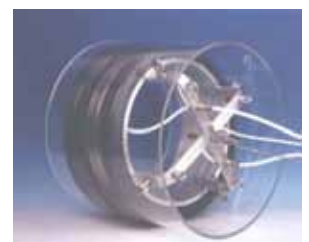
Mini Purging System
(½" to 1 ½" pipes)



Maxi Purging System
(1½" to 13" pipes)



Dedicated Compact Purging
System (6" to 20" pipes)



Jumbo Purging System
(16" to 48" pipes)

Features Common to all Purging Systems:

- Versatility for all pipe welding procedures, positions and materials.
- Especially well suited to nuclear, chemical and food related applications.
- Contamination-free system components.
- Economical: uses less inert gas due to small chamber volume.
- Time Saving: less down time due to a reduced purging volume.
- Completely sealed environment - flexible double-lipped baffles adjust to the corresponding pipe diameter, ensuring a full wall seal.
- Easy to use: system can be pulled out through small holes or dismantled.
- Heat-resistant: the system can be left in place until the completion of the welding joint.
- The system can also be used for cleaning purposes.

