

1. What is the intended application for the Argweld® PurgEye® 100 IP65 Weld Purge Monitor®?

This instrument is primarily for measuring oxygen levels down to 100 parts per million (ppm) when welding stainless steels and other reactive metals to prevent oxidation and discoloration. For accurate measurements below this, other PurgEye® monitors are available to measure accurately down to 10 ppm.

2. Is the Argweld® PurgEye® 100 IP65 good enough for stainless steel welding?

Weld Purge Monitors® manufactured and designed by Huntingdon Fusion Techniques HFT® have become the worlds' standard for measuring purge gas quality in TIG/GTAW and Plasma/PAW welding of tubes, pipes, tanks and other enclosed structures. The PurgEye® 100 IP65 detects oxygen levels down to 100 ppm and offers assurance that there are no leaks or that there is no outgassing to cause oxygen to remain in the vicinity of a weld.

3. Why should I use a Weld Purge Monitor®?

Materials such as stainless steels and reactive alloys can oxidise and discolour when welded in the presence of oxygen. The PurgEye® 100 IP65 will measure oxygen levels progressively as they are reduced by weld purging techniques so that welding can commence once the risk of oxidation and discolouration has been minimised.

4. What sort of sensor is used in the Argweld® PurgEye® 100 IP65?

A specialised and innovative solid state, self-calibrating design.

5. How can lower oxygen levels be measured?

HFT® manufactures a range of purge monitors that are capable of measuring oxygen levels down to 10 ppm.

6. My Company needs a Calibration Certificate once a year for all instruments. How do I obtain one?

The new PurgEye® 100 IP65 monitor has an auto push-button facility that calibrates the sensor at both atmospheric and minimum oxygen levels.

This feature allows the sensor to be highly accurately calibrated for each reading throughout the life of the sensor. In the event that formal certification is nevertheless required, HFT® has calibration centres around the world.

For the fastest and most economic method to obtain a new certificate, please contact us or your local HFT® distributor.

7. I need to detect oxygen level in pipes pre-heated to 300°C (572°F). Can I use the Argweld® PurgEye® 100 IP65 under these conditions?

The Argweld® PurgEye® 100 IP65 Weld Purge Monitor® should not be exposed to gas at a temperature above 50°C (122°F).

8. Can Weld Purge Monitors® only be used when purging with argon?

The PurgEye® monitors can measure the oxygen level within any gas, not only inert gases. They can be used to monitor the oxygen level when using inert gases such as argon and helium and also other welding gases such as nitrogen and nitrogen/hydrogen mixes.



Note: HFT® provides laminated posters showing discolouration levels for stainless steels that can be used for inspecting welds for quality control purposes.