

# Gas Purge Monitor - GPM

The GPM features a 5.7" LCD screen for a clear view of the monitored Oxygen level.

Oxygen level can be displayed in Percent (%) or Parts Per Million (ppm) user-selectable.

The Zirconia Oxygen Sensor can measure Oxygen levels from 5% down to 0.0001% (50000 to 1ppm).

Optional inline hygrometer sensor is available for the measurement of moisture content in the purge gas from 3000ppm down to 1ppm.

Data-logging of the Oxygen level and operation time directly on to a 4GB Pen Stick Flash Drive can be programmed by the user to record at pre-set intervals.

The GPM is housed in a rugged die-cast aluminium case. Outputs are provided for optional external warning beacons, proportional output together with changeover relay contacts for clients own warning systems.

The 5.7" LCD Display provides a clear readout of the monitored data together with an on-board printout of the logged data. The proportional output can be programmed to output a DC voltage of 0 to 5V DC (0-10V DC and 4-20mA optional) over a pre-programmed oxygen level range. High/Low Alarm Limits can be programmed by the user to provide external signalling via the Alarm Outputs on the GPM.



The GPM screen will also provide clear indication of the Alarm condition. Red, when the level is above the High limit. Yellow, when the level is between the High and Low limits and Green when the level is below the low limit.

## Purge Gas - Flow Control Regulator Box

The TVC Gas Purge Automatic Flow Control System has been designed to be used in conjunction with the TVC Gas Purge Monitor (GPM). It is a three stage flow controller which can be easily programmed to give three flow rates (High, Mid, Low). At pre-programmed Oxygen levels, the three flow stages each correspond to the GPM Alarm levels and Traffic Light Alarm Beacon (Red = High Flow; Yellow = Mid Flow and Green = Low Flow).

Gas flow will only start when the 'Start' button is pressed on the GPM unit so the system offers full automation for all gas purging activities. The flows can be set from as low as 4 LPM all the way up to 80 LPM and by controlling the purge gas flow according to the Oxygen level the system not only ensures quick, accurate and efficient purging but also provides the benefits of cost saving by ensuring that only the optimum amount of gas is used for the purging process.



GPM unit set up with Flow Control Regulator Box



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# Gas Purge Monitor GPM

## > Gas Purge Monitor GPM



### General Unit

Applications	Welding Gas Purging
Dimensions	230 x 240 x 140mm
Screen	5.7" Colour LCD
Memory	4GB External Flash Drive
Temperature Range	0 - 50°C
Weight	3Kg
Power	External 90-260V AC

### Measured Parameters

Flow	0.1 – 2 litres/min $\pm$ 5% fsd
Oxygen Level	0.0001 – 5% $\pm$ 0.001% fsd $\pm$ 1 Digit
Operational Time	0 – 9999 $\pm$ 1% fsd (seconds)

### Optional Parameters

Moisture	0 - 3000ppm $\pm$ 1.5%
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