

GPM

TVC

For a clear view of monitored Oxygen levels



The GPM features a 5.7-inch LCD screen for a clear view of the monitored Oxygen level. The Oxygen level can be set by the user to be displayed in percent (%) or parts per million (ppm). The Zirconia sensor can measure Oxygen levels from 5% down to 0.0001% (5000 to 1ppm). Data logging of the Oxygen level and operation time is directly onto a 4GB pen stick flash drive and can be programmed by the user to record at preset intervals.

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

The 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 for DC voltage of 0 to 5V DC (or optional variants 0 to 10V DC and 4 to 20mA) over a pre-programmed Oxygen level range. High and low alarm limits can be programmed by the user to provide external signalling via the alarm outputs on the GPM. The screen also provides 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.

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



Purge Gas Flow Control System

The TVC Gas Purge Automatic Flow Control System has been designed for use in conjunction with the 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 flow stages correspond to the GPM alarm levels and traffic light alarm beacon.

Gas flow will only begin when the 'Start' button on the GPM is pressed offering full automation for all gas purging activities. The flows can be set from as low as 4LPM up to 80LPM. By controlling the purge gas flow according to the Oxygen level, the system achieves fast, accurate, and efficient purging and also provides the benefits of cost saving ensuring the only the optimum amount of gas is used for the purging process.



GENERAL UNIT

Applications	Welding Gas Purging
Memory	4GB Removable Flash Drive
Screen	5.7-inch Full Colour LCD
Operating Temp.	0 - 50°C
Max. Dimensions	230 x 240 x 140mm
Weight	3Kg
Power	External 90-240V AC, Auto Selection

MEASURED PARAMETERS

Flow	0.1 - 2L/min +/- 5% FSD
Oxygen Level	0.0001 - 5% +/- 0.001% FSD +/- 1 Digit
Operational Time	0 - 9999 +/- 1% FSD

OPTIONAL PARAMETERS

Range	0 - 3000ppmv
Accuracy	+/- 2°C DP
Repeatability	0.5°C DP

CALIBRATION & CERTIFICATION

Full calibration certification provided, traceable to The National Physical Laboratory (NPL), UK.

The Validation Centre (TVC) Limited reserves the right to alter or change product specifications without prior notice. Images are representative of full optional additions installed; delivered equipment and software may vary depending on options purchased.



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