GPM

GAS PURGE MONITOR



- Accurate oxygen level measurement
- Easy to use and operate
- Multiple output ports for flexibility
- Data logging for easy tracking
- Programmable alarm limits for peace of mind
- Optional inline hygrometer for added peace of mind
- Cost-savings by ensuring only the optimum amount of gas is used

The clear choice for oxygen monitoring.

The GPM has a large LCD screen that provides a clear view of the monitored oxygen level. The user can choose to display the oxygen level in percent (%) or parts per million (ppm). The Zirconia sensor can measure oxygen levels from 5% down to 0.0001% (5000 to 1ppm). Oxygen level and operation time data can be logged directly to a pen stick flash drive. The user can program the GPM to record data at preset intervals.

The GPM has multiple output ports for connecting external warning beacons, proportional output devices, and changeover relay contacts for clients' own warning systems.

The LCD display provides a clear view of the monitored data, including an on-board printout of the logged data. The proportional output can be programmed to provide a DC voltage signal of 0 to 5V DC (or 0 to 10V DC or 4 to 20mA, depending on the variant) over a pre-programmed oxygen level range. High and low alarm limits can be programmed by the user to provide external signaling via the alarm outputs on the GPM. The screen also provides clear indication of the alarm condition: red for above the high limit, yellow for between the high and low limits, and green for below the low limit.

An optional inline hygrometer is available to measure moisture content in purge gas from 3000 parts per million (ppm) down to 1 ppm.

Purge Gas Flow Control System

The TVC Gas Purge Automatic Flow Control System is designed to work with the GPM. It is a three-stage flow controller that can be easily programmed to provide three flow rates: high, medium, and low. When the oxygen level reaches a pre-programmed level, the flow stage corresponds to the GPM alarm level and traffic light alarm beacon.

The GPM provides full automation for all gas purging activities. Gas flow will only begin when the "Start" button is pressed. The flow can be set from as low as 4 liters per minute (LPM) up to 80 LPM. By controlling the purge gas flow according to the oxygen level, the system achieves fast, accurate, and efficient purging. This also provides cost savings by ensuring that only the optimum amount of gas is used for the purging process.

The GPM is a state-of-the-art gas purge system that provides full automation, accuracy, and efficiency. With its large LCD screen, easy-to-use interface, and multiple output ports, the GPM is the perfect solution for any gas purging application.

General Specifications

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

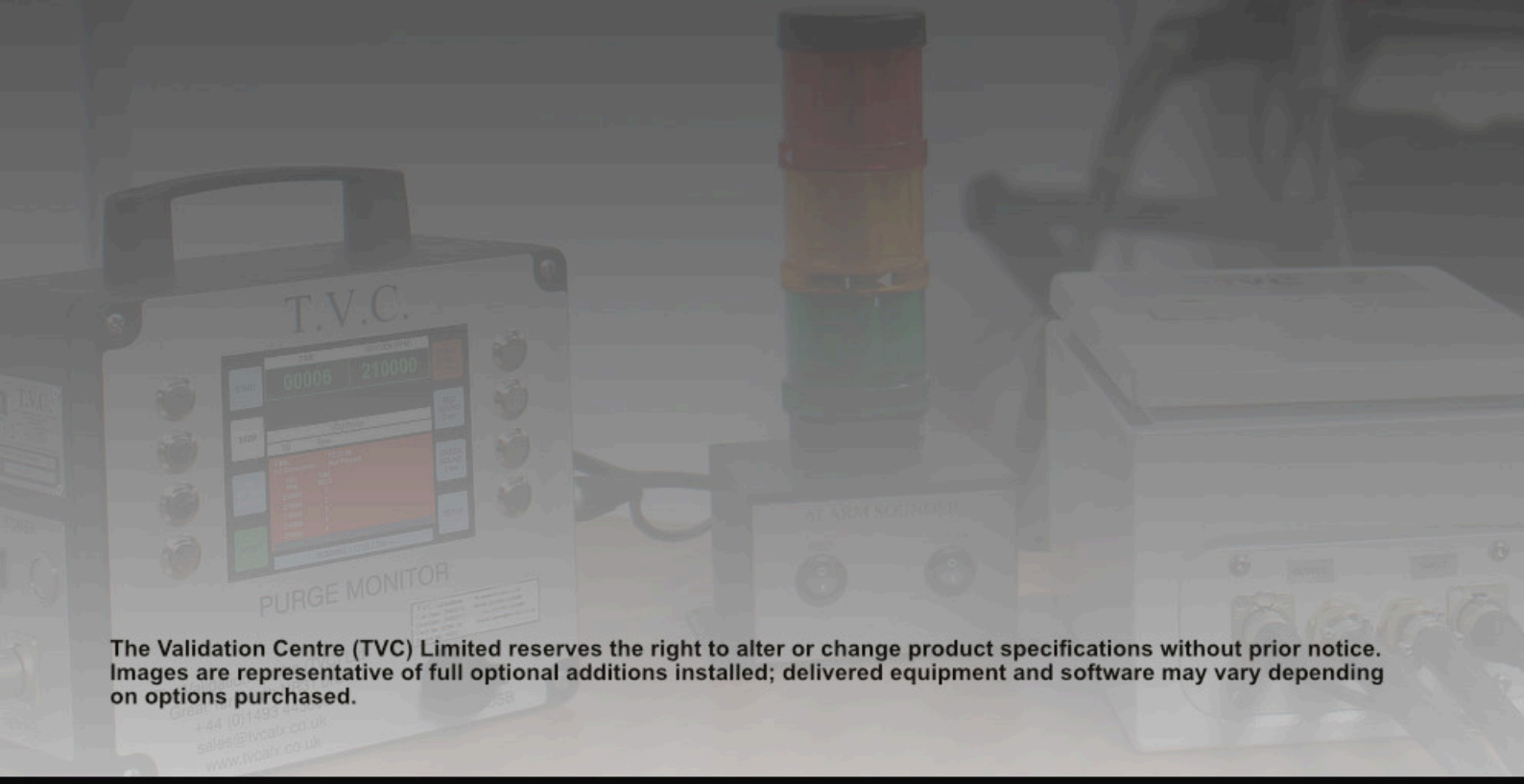
Measured Parameters

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

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.

THE VALIDATION CENTRE (TVC) LIMITED
Unit 15, Brinell Way, Great Yarmouth, Norfolk,
NR31 0LU, United Kingdom

+ 44 (0) 1493 443800
sales@tvcalx.co.uk
www.tvcalx.co.uk