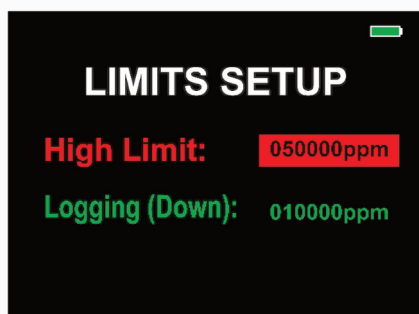
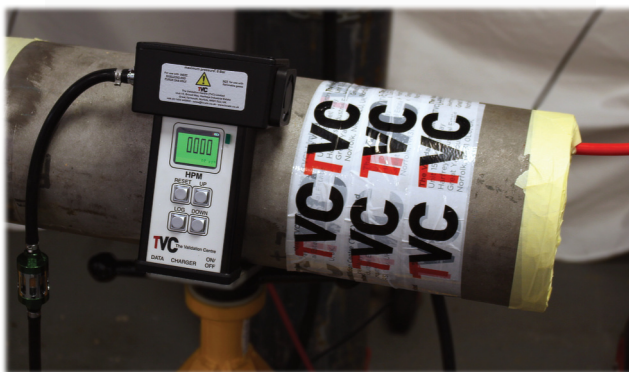


HPM



For the measurement and control of purge
Oxygen levels



The HPM is a robust, battery-powered hand-held unit for the measurement of Oxygen levels when purging. The Oxygen level is displayed in either percent (%) or parts per million (ppm), depending on the HPM model purchased.

Two models are available subject to price range and resolution required. The HPM-01 uses a simple non-depleting optical Oxygen cell and displays the Oxygen level from ambient (21.00%) down to 0.01%. The HPM-02 combines the technology from the the HPM-01 with a miniature, low power Zirconia sensor. Displaying in both percent (%) and parts per million (ppm), the HPM-02 measures from 210000ppm down to 1ppm and Oxygen levels from ambient (21.00%) down to 1ppm.

Both versions have on-board data logging as standard. The HPM saves the purge data as a .CSV file for easy download to a PC and integration into the MS Excel report using the supplied USB cable.

The HPM is housed in a rugged die-cast aluminium case with IP rated aluminium push buttons. The 2.6" OLED full colour display changes colour to show when the user set Oxygen levels have been achieved. Upper and lower Oxygen levels can be set so when the Oxygen level is above the high limit the display background will be red. When the measured level is lower than the high limit but above than the low limit, the screen background will be yellow. Finally, when the low limit is achieved, the screen will change to green so the user can easily see when welding can begin.

Additional Options

An option for the measurement of Carbon Dioxide content can be ordered at the time of purchase with either model. This enables the unit to measure, display and log the Oxygen level along with Carbon Dioxide content from 0.5% up to 59.9%.

An output to enable flow control via a remote flow control box is also available. Gas flow will only begin when the 'Start' button on the HPM is pressed, offering full automation for all gas purging activities. Flows can be set as low as 4LPM all the way up to 80LPM. Controlling the purge gas flow according to the Oxygen level ensures quick, accurate and efficient purging and also provides the benefits of cost saving as only the optimum amount of gas is used for the purging process.

GENERAL UNIT

Applications	Inert Welding Gas Purging
Memory	16GB Internal Flash Drive
Screen	2.6-inch Full Colour OLED
Operating Temp.	0 - 50°C
Max. Dimensions	164 x 95 x 55mm
Weight	1.1Kg (excluding Accessories and Charger)
Battery Life	Typically 6 - 12 Hours
Battery Type	Li-Ion 7.2V 2.6Ah Rechargeable
Battery Charger	External 90-240V AC, Auto Selection, 2 Hour Charge Time

MEASURED PARAMETERS

HPM-01	Optical Sensor
Oxygen Level	21.00% - 0.01%
HPM-02	Combined Sensor (Optical and Zirconia)
Oxygen Level	210000 - 1ppm (21.00% - 1ppm)

OPTIONAL CARBON DIOXIDE SENSOR

Carbon Dioxide Level	0.5 - 59.9%
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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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