

# GFM2

# TVC

## Compact measurement of shielding gas flow



GFM2 Standard Model



GFM2 Analysis Model

The GFM2 is a compact, battery-powered unit which takes inline measurement of shielding gas flow.

Fitted into the gas line downstream of the regulator, the unit can record gas flow data for up to 24 hours from a single charge or used on mains power for continuous operation. The unit also measures gas pressure and temperature, accounting for these variables in the final display of gas flow.

'Peashooter' gas flow meters are common in the welding industry, however, readings are subjective and can easily be read incorrectly leading to significant errors in the setting of gas flow. The GFM2's easy-to-read, illuminated colour display gives clear indications of gas flow in poor light conditions and will display the peak gas flow for gas usage analysis. The GFM2 will verify gas usage is in compliance with the welding procedure and significantly reduces shielding gas wastage by confirming accurate gas flow rates.

The GFM2 is capable of measuring gas flow up to 100L/min, gas pressure up to 8 Bar and temperature up to 0 - 50°C. The GFM2 is accurate for use on all shielding gases and gas mixes. The correct gas mix is user-selected from the pre-programmed list of the most popular gas mixes. In addition, customised and special gas mixes can be factory set.

The data-logging facility records flow results and surge data, temperature and gas pressure on the GFM2 unit's internal memory. Recorded data is downloaded via USB connection for direct import into the data viewing and reporting software. Data is recorded via one of three modes:

**Log 1** Logs the screen data on demand

**Log 2** Logs the gas surge for up to 300 seconds

**Log 3** Logs the screen data at set intervals programmable by the user

The GFM2 output can be connected directly to any of the TVC range of welding data logging systems giving a permanent record of measured gas flow.

### GFM2 Analysis

With all the features of the GFM2, the Analysis model has additional sensors to measure and record the Carbon Dioxide and Oxygen levels in sample gases. The set flow rate switches from red to green when the flow rate is in an acceptable range.

## KEY FEATURES

- Data-Logging Facility
- User-Selected Gas Mixes: 9 Pre-Programmed Popular Gas Mixes
- Factory Programmable for Custom and Special Gas Mixes
- On-board Data Storage: 3 x User-Selected Data Recording Modes
- Multi-Function Connector for Data Download and Output to TVC Welding Data Logging Systems

## GENERAL UNIT

Applications	All Inert Welding Gases
Screen	35 x 30mm Colour LCD
Operating Temp.	0 - 50°C
Max. Dimensions	185 x 100 x 60mm
Weight	1.2Kg (excluding Accessories and Charger)
Battery Type	Li-Ion 7.2V 2.6Ah Rechargeable
Battery Charger	External 90-240V AC, Auto Selection, 1 - 2 Hour Charge Time

## MEASURED PARAMETERS

Gas Flow	5 - 100L/min +/- 5% of RDG +/- 1 Digit
Peak Flow	5 - 100L/min +/- 5% of RDG +/- 1 Digit
Pressure	Up to 8 Bar +/- 1% of RDG +/- 1 Digit
Temperature	Up to 50°C +/- 2% of RDG +/- 1 Digit

## 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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