

Simple, one-handed measurement of welding shielding gas flow right at the welding nozzle.

NFM²



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The NFM² is a compact, battery powered unit which takes measurement of shielding gas flow right at the welding nozzle for the most accurate measurement. The NFM² is available as either a standard or advanced model.

“Peashooter” gas flow meters are often situated upstream away from the welding nozzle and so cannot allow for any gas leakage in the pipework feeding the welding nozzle giving inaccurate readings of the useful gas flow. Measuring the gas flow at the nozzle using the NFM² gives the welder a measurement of gas flow actually being used. The unit has either a fixed inlet or an extension pipe for use on robots and automated machines where the nozzle is difficult to reach.

The NFM² is capable of measuring nozzle flow up to 100 litres/min (212 cfm) and is accurate for use on all shielding gases and gas mixes. The correct gas mix is user selectable from the pre-programmed list of nine of the most popular gas mixes. Customised and special gas mixes can be factory set.

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 NFM² will confirm gas usage is in compliance with the welding procedure and will significantly reduce shielding gas wastage, by confirming accurate gas flow rates at the welding torch.

The optional data logging facility (Advanced Unit Only) records flow results and surge data on the NFM² internal memory. Recorded data is downloaded from the NFM² via USB connection for direct import into the included data viewing and reporting software.

The NFM² output can be connected directly to any of the TVC range of ALX and ALXII welding data logging systems, giving a permanent record of measured gas flow. The unit is supplied with a selection of flexible nozzles to fit all popular welding torches, plus a rugged carry case, manual, PSU / battery charger and 12 months calibration certification traceable to The National Physical Laboratory.



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Standard Model NFM²

- Factory set in metric or imperial units.
- Colour display.
- Nine selectable gas mixes - factory programmable for custom / special gas mixes.
- Multi-function connector (Charging and output to ALX / ALXII Welding Data Logger).

Advanced Model

- User selectable metric or imperial units.
- Data logging facility.
- Colour display.
- Nine selectable gas mixes - factory programmable for custom / special gas mixes.
- Multi-function connector (Charging, data download and output to ALX / ALXII Welding Data Logger).

General Unit Specification

Applications:	All Inert Welding Gases
Size:	160 x 80 x 45
Screen:	160 x 120 Colour LCD
Battery Type:	NiMh 9v Rechargeable
Temperature:	0 - 50°C
Weight:	0.6Kg Excluding Charger, Accessories and Carry Case
Battery Charger:	External 90- 260v AC Input, Auto Selection. 1-2 Hour Charge Time

Measured Parameters

Parameter:	Range
Gas Flow:	0-100 Litres per Minute +/-5% of RDG, +/- 1 digit (Imperial Option – 0 to 212 CFH)
Peak Flow:	0-100 Litres per Minute +/-5% of RDG, +/- 1 digit (Imperial Option – 0 to 212 CFH)

The Validation Centre (TVC) Ltd reserves the right to alter or change product specification without prior notice.



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