

Cost effective go-anywhere weld monitoring.

MAL III



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The Mini Arc Logger (MAL III) from TVC is one of the world's most cost-effective welding monitors. Supplied in a rugged case, this "go-anywhere" unit weighs less than 9kg and set-up takes minutes, minimising onsite downtime. The field proven sensor probes and IP rated controls mean the MAL III can be used in harsh conditions with the minimum of daily maintenance.

With probes for monitoring welding current up to 2000 amps and voltage up to 100 Volts, the unit handles all major arc welding processes including FCAW, GMAW, SMAW, SAW and AC/DC GTAW with protection against HF Arc Starting.

Its 5.7-inch TFT screen provides a clear view of all monitored welding parameters and the sealed battery allows up to eight hours of monitoring time between charge cycles.

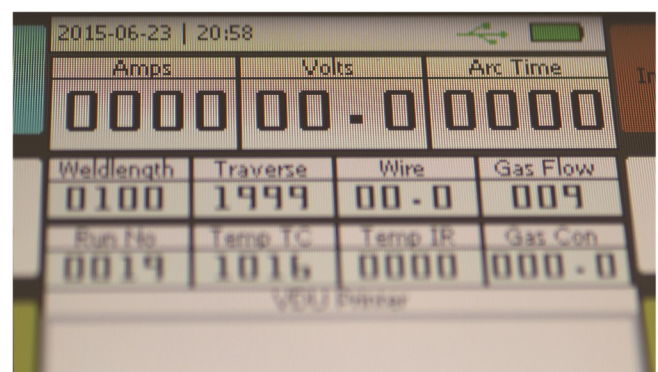
Welding data is recorded on a dedicated 4GB removable memory stick allowing integration of stored data into Excel spreadsheet reports, on an external PC. The reporting software is supplied with each unit along with the manual in electronic format on the USB media. The unit also comes with a flexible QWERTY keyboard for programming heading data and adjusting MAL III settings.

The standard base unit will measure and record welding current, arc voltage and arc time. The unit will also calculate and record arc energy and heat input.

Additional options for the MAL III include transducers for the measurement of wire feed speed and calculation of total wire payoff, welding travel speed for automated processes, gas flow and consumption together with a type 'K' thermocouple for measuring preheat and inter-pass temperatures.

An additional auxiliary input is available which can be factory configured for use with other transducers such as O₂ sensors for recording back purging during the weld (please contact TVC for further information.)

The unit is supplied with a 90-240V AC battery charger and has an optional external, portable, hard copy printer for printing weld parameter data during or after the weld process, providing the MAL III with full onsite traceability.



The Validation Centre (TVC) Limited

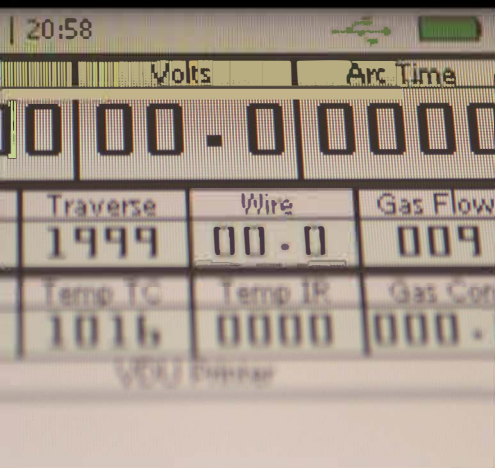
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General Unit

Applications	MMA/MIG/TIG (AC/DC)/SMAW/FCAW/SAW
Max. Dimension	355 x 255 x 188 mm
Screen	5.7in Full Colour TFT
Memory	4GB Removable Flash Drive
Battery Type	Sealed Lead Acid Rechargeable
Temperature	0 - 50°C
Weight	gKg (including Probes and Charger)
Battery Charger	External 90- 240V AC 3-4 Hour Charge Time
Printer/Rate	External Dot Matrix/2 x 1-60 secs User Selected Print Rates

Standard Monitored Parameters

Average Current	15 - 1999A +/- 2% of fsd +/- 1 digit
Average Voltage	0 - 99.9V +/- 2% of fsd +/- 1 digit

Monitored Parameters with Optional Transducers

Average Wire Speed	0 - 30.0m/min +/- 2.5% of fsd
Average Travel Speed	0 - 999cm/min +/- 1% of fsd
Average Gas Flow	0- 120lt/min +/- 5% of fsd
Temperature	0 - 1000°C +/- 1% of fsd
Arc Time	0.3 - 9999 secs +/- 0.1%

Calculated Parameters

Arc Energy	1 - 9999kJ +/- 2% of fsd
Heat Input	1 - 9999J/mm +/- 2% of fsd
Wire Consumed	0 - 9999m +/- 2.5% of fsd
Gas Consumed	0 - 9999Lt

User Entered Data Parameters

Gas Flow	1 - 99.9 Lt/min
Weld Length	0 - 9999mm

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

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