

Mini Arc Logger - MALIII

The all-new Mini Arc Logger (MALIII) 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, minimizing 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 to Excel report spread sheet 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 MALIII settings.



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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 Pre-Heat 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 MALIII with full onsite traceability.



For details of other TVC equipment, visit our website www.tvcalx.co.uk

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General Unit

| | |
|-------------------|---|
| Applications | MMA/MIG/TIG (AC/DC)/SMAW/FCAW/SAW |
| Max. Dimension | 355 x 255 x 188 mm |
| Screen | 5.7-inch Full-Colour TFT |
| Memory | 4GB Removable Flash Drive |
| Battery Type | Sealed Lead-Acid Rechargeable |
| Temperature Range | 0 - 50°C |
| Techniques | Manual/Semi-Auto/Fully-Auto/Robotic |
| Weight | 9Kg (Including Probes & Charger) |
| Battery Charger | External 90-240V AC (3-4 Hour Recharge) |
| Printer/Rate | External Dot-Matrix/2 x 1-60 secs User Selectable Print Rates |

Standard Monitored Parameters

| | |
|-----------------|-------------------------|
| Average Current | 15 - 1999A \pm 2% fsd |
| Average Voltage | 0 - 99.9V \pm 1% fsd |

Monitored Parameters with Optional Transducers

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

Calculated Parameters

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

User Entered Data Parameters

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

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

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