# Mini Arc Logger -
# MAL II



The all-new Mini Arc Logger (MAL II) 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 II 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 GTAW, GMAW, SMAW and SAW.

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 stored on a dedicated 2GB memory stick for exporting to Excel spread sheet reports on any PC loaded with TVC Arclog software.

The MAL II has options for the measurement of wire feed speed and total wire payoff, plus user programmable values for gas flow which enable the unit to calculate total gas consumption.

Providing the MAL II with full onsite traceability, the optional printer provides a hard copy record of the full weld parameters at the point of welding.

# Mini Arc Logger MAL II

> Mini Arc Logger
**MAL II**

### General Unit

| | |
|---|---|
| Applications: | MMA/MIG/TIG (AC/DC) SMAW/FCAW |
| Size (mm): | 355 x 255 x 188 |
| Screen: | 5.7-inch full-colour TFT |
| Memory: | 2GB 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 90-260Vac 3- to 4-hour recharge |
| Printer/Rate: | External dot-matrix 2 x 1-60 secs user selectable print rates |

### Monitored Parameters

| Parameter: | Accuracy |
|---|---|
| Average Current: | 15 - 1999A ± 2% fsd |
| Average Voltage: | 0 - 99.9V ± 1% fsd |
| Average Wire Speed: | 0 - 30.0m/min ± 2.5% fsd |
| Arc Time: | 0.3 - 9999 secs ± 0.1% |

### Calculated Parameters

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

### User Entered Data

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

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

**TVC**