

MonArc 4.0

MONARC 4.0 WELD MONITOR



- Versatile and user-friendly
- Improves welding quality and productivity, and safety
- Durable and hard-working
- Wireless connectivity
- Reliable and accurate
- Provides real-time data
- Affordable
- Compatible with all popular arc welding processes

Simple, affordable weld monitoring.

The MonArc 4.0 is a state-of-the-art weld monitoring and data logging system that uses the latest technology to provide real-time data and connectivity. It enables operators to seamlessly exchange welding data at all levels, in compliance with IoT and Industry 4.0.

Versatile and user-friendly, it provides comprehensive monitoring of all the key arc welding parameters. Optional remote assistance can be provided for training and assistance, and software updates can be downloaded from anywhere in the world.

The standard software package allows users to monitor voltage, current, wire feed speed, heat input, and energy calculations. The system can be used anywhere, in the workshop or on remote sites, making it the perfect solution for a variety of applications.

The MonArc 4.0 can be used with all popular arc welding processes. It is protected against damage from the high frequency/high voltage start systems used by many TIG welding power sources. The printer option allows welding/QC engineers to produce hard copy prints at the welding location.

Durable and hard-working, it is designed to withstand demanding conditions. The MonArc 4.0 is equally at home monitoring welding procedures, qualifying welders, or in a laboratory setting for precision welding of fine components and exotic materials.

Wireless connectivity: networking

The MonArc 4.0 welding data logger has optional wireless connectivity for networking. When connected to the TVC Edge Server, it can be used with TVC WeldGlobe software for remote welding data logging and display, as well as production monitoring.

For more information on the network connectivity software for remote viewing of production welding, procedure qualification, welder qualification, and documentation storage, please contact TVC.



WHEN ACCURACY MATTERS
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General Specifications

Applications	MMA/MIG/TIG (AC/DC)/SMAW/FCAW/SAW
Techniques	Manual/Semi-Auto/Fully-Auto/Robotic
Memory	Internal 128Gb
Screen	7-inch Full Colour TFT
Operating Temperature	0 - 50°C
Printer and Print Rate	External Dot Matrix, 2 x 1-60 secs User Selected Print Rates
Maximum Dimensions	241 x 130 x 270mm
Weight	3.6Kg (including Probes and Charger)
Battery Type	10.8V 6.6Ah Rechargeable Li-Ion Battery
Battery Charger	External 90-240V AC, Auto Selection, 3-4 Hour Charge Time

Standard Monitored Parameters

Average Current	15 - 1999A +/- 2% FSD
Average Voltage	0 - 99.9V +/- 1% FSD

Monitored Parameters with Optional Transducers

Average Wire Speed	0 - 30.0m/min +/- 2.5% FSD
Calculated Travel Speed	0 - 999cm/min +/- 1% FSD
Arc Time	0.3 - 9999secs +/- 0.1%

Calculated Parameters

Arc Energy	1 - 9999kJ +/- 2% FSD +/- 1 Digit
Arc Time	0.3 - 9999secs +/- 0.1% FSD +/- 1 Digit
Heat Input	1 - 9999J/mm +/- 2.5% FSD +/- 1 Digit
Wire Speed	0 - 30.0m/min +/- 2.5% +/- 1 Digit
Wire Consumed	0.1 - 9999m/min +/- 2.5% FSD +/- 1 Digit

User Entered Data Parameters

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

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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