

## MSA 4.0 Electrofusion Unit with full traceability and GPS functions



High performance, light electro-fusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.

The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

For operator identity card, job identification and fusion data input a 1D (or 2D in case of Unitary QR code availability) barcode scanner is connected.

The internal Bluetooth Low Energy device offers the possibility to enter data, monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.

The internal memory has a capacity of 5000 jointing records, which can be retrieved using a USB memory stick. The fusion protocols are delivered as PDF, CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.

Robust aluminum die casting enclosures and comfortable plastic handle ensure a weight balanced carrying.

Rental time period programmable by the machine owner, unit blocks on expiring date, reset by a dynamic code can be activated.

Scope of delivery: transport case, angle adapters (4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and USB memory stick with PC applications.

### Technical Data:

- Mains frequency: 50-60 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 480 x 220 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27
- Bluetooth radio interface

Type	Description	Code	Weight (kg)
MSA 4.0	1D barcode scanner	<b>790 156 011</b>	12.400
MSA 4.0	2D barcode scanner (QR code reading)	<b>790 156 012</b>	12.400
MSA 4.0	1D barcode scanner, 8m welding cables	<b>790 156 014</b>	13.400

The technical data are not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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