



MSA
Electrofusion Units

MSA units at a glance



Features

MSA 250

MSA 300

MSA 350

MSA 400

Temperature-dependent power control	●	●	●	●
Wide input voltage range (180 - 264 V)	●	●	●	●
Suitable for generator operation	●	●	●	●
Automatic fusion data input via barcode reader/scanner	●	●	●	●
For serial and long-time fusion	●	●	●	●
Washdown and dustproof (IP 65)	●	●	●	●
Maximum protection against electrical hazards, Protection class 1	●	●	●	●
Lightweight, robust aluminium housing	●	●	●	●
Sturdy transport box	●	●	●	●
Integrated active cooling	●	●	●	●
Manual entry of fusion time	●	●	●	●
Fusion time and energy display	●	●	●	●
Menu guidance in more than 24 languages		●	●	●
Programmable maintenance intervals		●	●	●
User guidance		●	●	●
Individual configuration		●	●	●
Logging/pipe book software MSA WIN-WELD			●	●
Internal safety protocol storage			●	●
Fusion data logging			●	●
Memory card for 400 fusions				●
Complete traceability is possible for individual piping components (Traceability according to ISO 12176-4)				●

Your Benefits

- maximum safety for the user
- individual configuration
- the right machine for every application
- reliable fusion process
- user guidance in 24 languages
- polyvalent system
- simple updating of software
- more rational
- improved work quality
- long service life
- easy -to- follow user guidance menu
- easy to transport
- robust design
- less non-productive time
- easy fusion data processing
- user-friendly

WIN-WELD Software

The WIN-WELD Software Package is a valuable tool for documentation of your piping network or individual sections of it. It offers continuous documentation of fusion connections and the piping components used (fittings, pipes, mechanical parts) and the whole piping installation.

The following options are also available to you with the WIN-WELD Software Package:

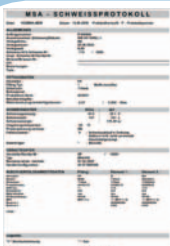
- single and collective fusion protocols
- individual configuration of fusion devices
- welder ID according to ISO 12176-3
- fusion data processing and organisation
- importing fusion data in CSV format
- exporting data in EXCEL or ACCESS
- formatting MSA memory cards
- creating individual barcodes
- reading out of fusion data
- creation of a pipe book
- using the pipe book to calculate the volume of your piping network
- piping system documentation according to ISO 12176-4



Logging of fusion and/or Traceability data with the MSA 350, MSA 400



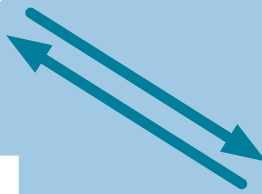
Saving of fusion and/or traceability protocols and also for updating new software or languages



Transferring to database and/or printing out of single or collective protocols



Downloading in the fusion and traceability data, formatting the memory cards and configuring the individual fusion units



Order Information for MSA Devices

MSA 250

- With barcode reader (EU power plug), Code 799 350 407
- With barcode reader (CH power plug), Code 799 350 406
- With barcode scanner (EU power plug), Code 799 350 421

MSA 300

- With barcode reader (EU power plug), Code 799 350 375
- With barcode reader (CH power plug), Code 799 350 383
- With barcode scanner (EU power plug), Code 799 350 431

MSA 350

- With barcode reader (EU power plug), Code 799 350 391
- With barcode reader (CH power plug), Code 799 350 392
- With barcode scanner (EU power plug), Code 799 350 441

MSA 400

- With barcode reader (EU power plug), Code 799 350 376
- With barcode reader (CH power plug), Code 799 350 384
- With barcode scanner (EU power plug), Code 799 350 451

Order Information for MSA Accessories



Barcode scanner
MSA 250-MSA 400
Code 799 350 41



Barcode reader
MSA 250-MSA 400
Code 799 350 335
Case for reader
Code 799 350 337



Software PIPE WIN-WELD
Code 790 119 301
Software MSA WIN-WELD
Code 799 350 365



Transport box
MSA 250- MSA 400
Code 799 350 472



USB serial converter
USB-RS 232, length 0.4 m
only with PC data
transfer cable
Code 799 350 495



Memory card 256 KB
for 400 logs
Code 799 350 395



Data transfer cable PC
Serial RJ 45 - Serial RS 232
Length 2 m
Code 799 350 385



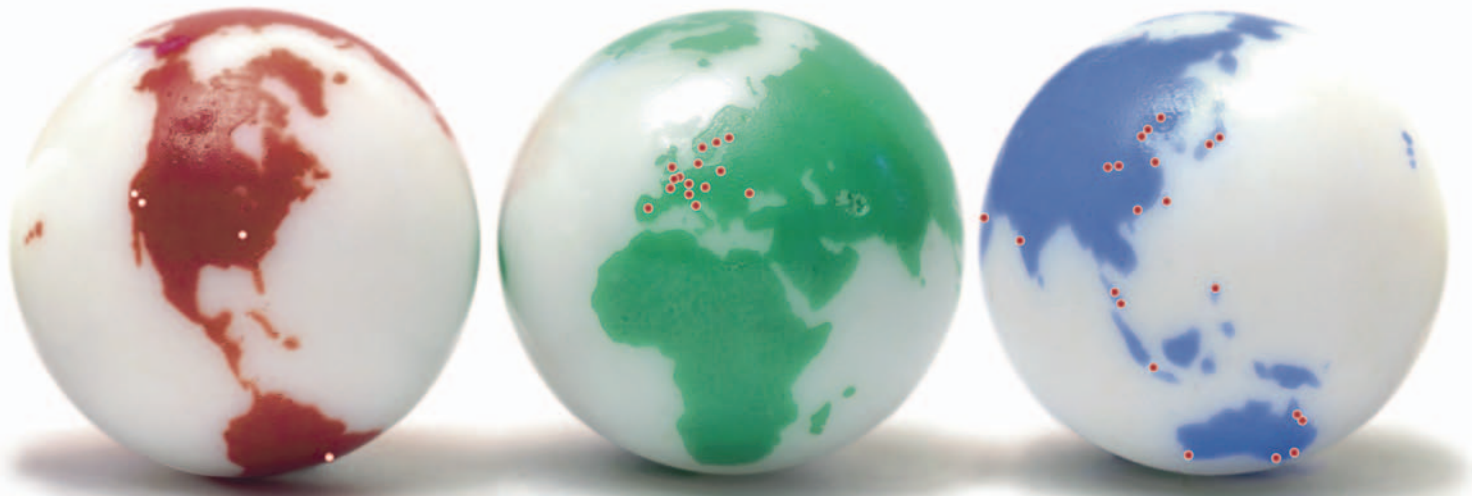
Printer cable
Serial RJ 45 - Parallel/
Centronics, Length 2.8 m
Code 799 350 387



Adapter
4.0 mm elbow, black, Code 799 350 340
4.7 mm straight, grey, Code 799 350 341
4.0 mm elbow, black, Code 799 350 461
4.7 mm straight, grey, Code 799 350 462

Technical data	MSA 250	MSA 300	MSA 350	MSA 400
Input voltage range	180 - 264 AC	180 - 264 AC	180 - 264 AC	180 - 264 AC
Frequency range	45 - 65 Hz	45 - 65 Hz	45 - 65 Hz	45 - 65 Hz
Current consumption	16 A	16 A	16 A	16 A
Power	3500 W	3500 W	3500 W	3500 W
Output voltage	8 - 42 V (48 V)	8 - 42 V (48 V)	8 - 42 V (48 V)	8 - 42 V (48 V)
Output current	0.5 - 90 A	0.5 - 90 A	0.5 - 90 A	0.5 - 90 A
Upstream safety cutout	16 A inert	16 A inert	16 A inert	16 A inert
Protection rating	IP 65	IP 65	IP 65	IP 65
Protection class	1	1	1	1
Housing	Aluminium	Aluminium	Aluminium	Aluminium
Integrated cooling	Yes	Yes	Yes	Yes
Connecting cables	3 m	3 m	3 m	3 m
Fusion cables	3 m	3 m	3 m	3 m
Weight (operative, incl. cable)	11.5 kg	11.5 kg	11.5 kg	11.5 kg
Measurements (W/H/D)	284/364/195	284/364/195	284/364/195	284/364/195
Processable barcodes	Code I 2/5 Code 128 C	Code I 2/5 Code 128 C	Code I 2/5 Code 128 C	Code I 2/5 Code 128 C
Working temperature range	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C
Automatic temperature compensation	Yes	Yes	Yes	Yes
Fusion current monitoring	Yes	Yes	Yes	Yes
Coil short-circuit recognition	Yes	Yes	Yes	Yes
Display	LED 7- Seg x 4 N	LCD graphic	LCD graphic	LCD graphic
Documentation of fusion data	-	-	Yes	Yes
Documentation of traceability data	-	-	-	Yes
Internal data storage	-	-	Yes, 750	Yes, 750
External data storage, Memory Card	-	-	Yes, 400	Yes, 400
Serial interface	-	-	Yes	Yes
Parallel interface	-	-	Optional	Optional
Protocol software MSA WIN-WELD	-	-	Yes	Yes
Data transfer cable	-	-	Optional	Optional
Memory card	-	-	Optional	Yes, 256 kB
Welder ID (can be configured as mandatory entry)	-	-	Yes	Yes
Manual fusion data entry	Yes	Yes	Yes	Yes
Languages	-	24	24	24
Elbow connector plug 4.0 mm	Yes	Yes	Yes	Yes
Barcode scanner	Optional	Optional	Optional	Optional
Transport box (aluminium/wood)	Yes	Yes	Yes	Yes
Recommended generator power	3.5 kVA	3.5 kVA	3.5 kVA	3.5 kVA
Standards: CE, EN 55014, EN 50081-1, EN 50082-1, EN 61000-3-3, EN 60335-1, EN 60335-2-45	Yes	Yes	Yes	Yes

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Our sales companies and representatives ensure local customer support in over 100 countries.

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