GF Piping Systems
GF Central Plastics

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MSA 340

Sophisticated electrofusion technology. Simple, intuitive operation.

Introducing the MSA 340 –
the next generation of electrofusion processors from Georg Fischer Central Plastics.

Gas | Water & Waste Water |
Energy | Industrial

Engineering at its best:
High-end components and custom configuration support your work flow perfectly.

DURABILITY

- Made of high quality components
- Prevention of electrical damage
- Water resistant design to IP54 standards

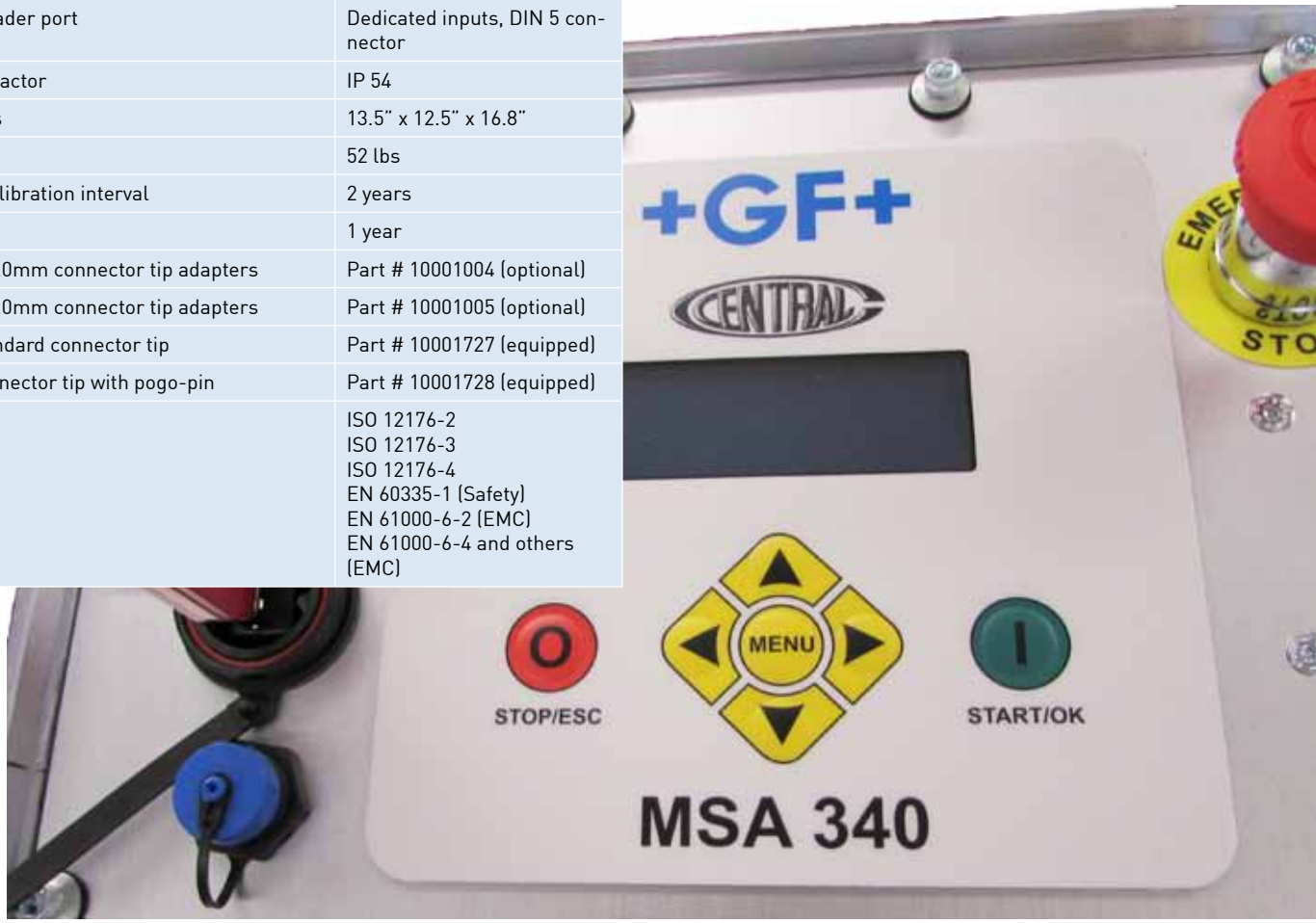
SIMPLICITY

- Intuitive user interface
- Clear and explicit error messages
- USB interface for fusion record downloading and firmware updates

CUSTOMIZATION

- New software is able to decipher ASTM barcodes and fusion data can be saved into .PDF or .CSV formats
- 3 operating modes: Auto-ID, Barcode and Manual
- Selectable menu language
- Customized traceability options to fit your work flow
- Guardian™ Auto-lock rental function

Technical specifications MSA 340 (115 V & 230 V)	
Input voltage and frequency	115 V and 230 V (+/- 20%)
Frequency range	50-70 Hz
Suggested generator power requirements	6kVA—all fittings including up to 26" IPS/660mm couplings 3.5kVA coupling up to 8"/225mm, all reducers, and all saddles (service tapping tees, high volume tapping tees and branch)
Input Waveform	AC (sine, square or quasi-sine)
Fusion technique	Voltage controlled
Fusion voltage	8-48V~
Operating temperature	-10°F - 120°F
Internal temperature	-10°F - 180°F
Power cable length	12 ft
Fusion cables length	25 ft
Fusion data input mode	Bar code, Manual, CP mode
Capacity of internal memory	1000 fusions
USB port	Type A
Barcode reader port	Dedicated inputs, DIN 5 connector
Protection factor	IP 54
Dimensions	13.5" x 12.5" x 16.8"
Weight	52 lbs
Revision/calibration interval	2 years
Warranty	1 year
4.7mm to 3.0mm connector tip adapters	Part # 10001004 (optional)
4.7mm to 4.0mm connector tip adapters	Part # 10001005 (optional)
4.7mm Standard connector tip	Part # 10001727 (equipped)
4.7mm Connector tip with pogo-pin	Part # 10001728 (equipped)
Standards	ISO 12176-2 ISO 12176-3 ISO 12176-4 EN 60335-1 (Safety) EN 61000-6-2 (EMC) EN 61000-6-4 and others (EMC)



A significant cost benefit for you.

The MSA 340 is easy and intuitive to use. In addition, it offers the ability to record GPS data and has an embedded rental duration control feature.

MSA 340 Overview	MSA 340
Fittings dimension range (Ø in)	1/2 to 26
Multiple fusions in sequence	✓
Operating procedures check	
Automatic temperature compensation (in barcode mode)	✓
Fusion current monitoring (short/interrupt)	✓
Electrical protection (thermal and fuse)	✓
Data input	
Barcode reader pen	✓
Barcode scanner (optional)	✓
Manual fusion input	✓
Auto-ID	✓
Data recording	
Documentation of fusion	✓
Traceability documentation (ISO 12176-4)	✓
GPS support	✓
Operations control	
Display brightness adjustable	✓
Audible alert	✓
Different levels of access (admin/user)	✓
Multiple languages	10
Serviceability	
Programmable maintenance interval	✓
Programmable rental time interval	✓
Software upload via USB memory stick	✓
Memory download via USB memory stick	✓
Usability	
Configurable workflow	✓
Problem recognition (fittings, generators)	✓
Clear messages to the operator on the display	✓
User guidance	✓
Indication of energy, fusion and cooling time	✓
Data protocol format (csv, pdf) Windows® independent	✓

New Enclosre
Stow-and-Go Model

USB interface

Emergency Stop Switch
and GPS Antenna

Reliable, easy-to-use and ready for current and upcoming international standards.

The MSA 340 enhances your daily operations tremendously.

As a state-of-the-art tool, it encompasses numerous features which support safety, speed and reliability.

With detailed fusion reports and traceability data – the machine works hand in hand with the operator on the construction site.

For training and after-sale services, you can rely on Georg Fischer Central Plastics.

Barcode Scanner

- Designed for MSA Processor but will work with Easy Fuse and Emie Barcode Processors.
- Uses the same connectors as barcode wands - no modification necessary.
- Has IP52 rating for dust/moisture resistance.
- Very quick reading capabilities up to 2 feet away - depending on size of barcode.
- Audible tone and “Green-Spot” at read site for instant good-read feedback.

TRANSPORT

- Ergonomic transport

COMMUNICATION INTERFACE

- USB type A to export fusion protocols and upload software updates

TEMPERATURE SENSORS

- Energy compensation depending on ambient temperature
- Internal temperature check before starting the fusion process

ADAPTERS

- 4.0 mm, 3.0 mm (optional)

SAFETY EQUIPMENT

- Automatic thermal switch
- Internal fuse protection

USER INTERFACE

- Work flow and error messages on LCD display
- Audible tones to signal fusion completion and errors
- START/STOP and menu navigation buttons
- Emergency stop

DATA INPUT

- Bar code reader
- Manual data input (via buttons)
- Auto-ID (CP Mode)

The right solution for everyone — thanks to leading technology.

Easy-to-handle navigation keypad

EASY AND INTUITIVE

Easy and intuitive operation on site can be seen with the practical seven-button keypad used to navigate through the clearly structured menu. With one-button (START/OK) operation the user is guided from preparation to finalization of the fusion process. Fusion data can be input manually, automatically (in CP mode), or via barcode scan.

The work flow and menu language can also be adjusted to the user's personal requirements. At the beginning of each fusion additional information, like operator ID and job number, can be attached to the fusion record.

ROBUST DESIGN

The robust design protects the high quality electrical components and provides excellent heat dissipation allowing fusion in series. The power cord and fusion cables are stored securely in the case lid.

TRACEABILITY DATA

The MSA 340 allows fusion data recording to an internal memory capable of recording up to 1000 fusions. During daily use this interface is sheilded against dirt with a protective screw cap.

That data is easily downloaded via standard USB interface to a personal computer for printing and digital storage. No additional data management software has to be installed; the fusion protocol is available in .PDF and .CSV format.

CALIBRATION KITS

The MSA 340 calibration kit allows customers to calibrate the unit on their own without having to ship it to our facility or even open the box. This reduces shipping expenses and down time, lowering the overall cost of ownership. In addition, the kit itself does not need to be returned to GFCP for regular recalibration.

The MSA 340 comes with a standard 25-foot lead—a full 12 feet longer than our competition's—making it easier to reach the fusion point.

ADVANCED FEATURES

The MSA 340 has advanced features that comply with the more sophisticated requirements of certain gas applications. The traceability data of the fitting and the pipes can be saved to the fusion record as well as the GPS coordinates of the fusion position.

GREATEST SCOPE OF RECORDED DATA

The data is delivered in PDF or CSV format; both are manageable with customary and free (no license) PC software applications. Each fusion may contain up to 20 different types of data, including fusion parameters, operator ID and job number. The MSA 340 stores the GPS coordinates of the fusion to identify the geographical location and the traceability codes of fitting and pipeline components (ISO).

ASTM TRACEABILITY

The MSA 340 is capable of reading, decoding and documenting the new ASTM barcode labels for each fusion performed.

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GEORG FISCHER
PIPING SYSTEMS

GEORG FISCHER CENTRAL PLASTICS

Georg Fischer Central Plastics builds quality piping systems that are efficient, reliable and safe - supplying products and solutions with unparalleled integrity.

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