



PLASSON®

NEWS

Plasson product information to improve performance

008 0303

PLASSON'S EXPANDED RANGE OF NEW PF- ELECTROFUSION CONTROL BOXES

Due to the rapidly expanding demand for Plasson Fusamatic electrofusion welding systems for polyethylene pipe – Plasson introduces an expanded range of the latest generation PF – electrofusion control boxes.

Features

- **Generator Compatibility:** Automatically checks generator suitability. Will not commence welding if the power supply is out of specification. Suits very wide voltage and frequency range. Ramped soft start avoids generator problems. Low Power.
- **Weather Proof:** Case made from high impact waterproof materials and supplied in own carrying case for transportation and additional protection.
- **Wide Operating Temperature Range:**
-10°C to 50°C.
- **Portable:** Only 20kg – easy handling.
- **Detachable Output Leads:** Available in 5, 10 or 15m lengths. Gives access to difficult locations. Permits operation with spare lead if a lead is damaged.
- **Automatic Recognition** of Plasson Fusamatic fittings 20 to 355mm diameter.
- **Manual Input** for non-Plasson 39.5V fittings (some models).
- **Bar Code Scanning** for bar coded fittings (Polymatic+).
- **Data Recording** (some models).
- **Data Transfer Systems** to PC or printer (some models).
- **Wide Range of Accessories**
- **Simple Operating Instructions:** Automatic screen prompts guide operators through each step. Available in 7 languages by simple prompt selection.
- **Dynamic Process Supervision**
- **Trouble Shooting:** Screen gives data on errors which may occur during the welding process. Screen records working hours and gives a prompt when service is required.
- **Maintenance:** Full maintenance and servicing available in Australia.



PLASSON'S EXPANDED RANGE OF NEW PF - ELECTROFUSION CONTROL BOXES cont.

Features

	PF - Monomatic	PF - Monomatic (data)	PF - Digimatic Time	PF - Digimatic Data	PF - Polymatic Plus (data)
Cat. No. (5m lead) (10m lead) (15m lead)	PFMONO5DL PFMONO10DL PFMONO15DL	PFMONODATA5DL PFMONODATA10DL PFMONODATA15DL	PFDIGITIME5DL PFDIGITIME10DL PFDIGITIME15DL	PFDIGIDATA5DL PFDIGIDATA10DL PFDIGIDATA15DL	PFPOLYPLUS5DL PFPOLYPLUS10DL
Plasson Fusamatic mode (automatic)	✓	✓	✓	✓	✓
Manual Input of Welding Time	-	-	✓	✓	✓
Manual Input of Welding Voltage	39.5V ONLY	39.5V ONLY	39.5V ONLY	39.5V ONLY	10 – 48V
Barcode Reader to Input Weld Info.	-	-	-	-	✓
Data Recording	-	✓	-	✓	✓
Records Cycles	-	200	-	200	1400
Data Transfer to PC or Printer	-	✓	-	✓	✓
Recording of Data & Time	-	✓	-	✓	✓
Multilingual Display Messages (7)	✓	✓	✓	✓	✓
Error Messages in Plain Text	✓	✓	✓	✓	✓
Adjustable Display Contrast	✓	✓	✓	✓	✓
Dynamic Process Supervision	✓	✓	✓	✓	✓
Auto Software Check	✓	✓	✓	✓	✓
Software Upgradeable	-	-	-	✓	✓
Resistance Check	✓	✓	✓	✓	✓
Soft Start	Ramped	Ramped	Ramped	Ramped	Ramped
Service Message	After 200 hours Or 12 months	After 200 hours Or 12 months	After 200 hours Or 12 months	After 200 hours Or 12 months	After 200 hours Or 12 months

Technical Data

Input Voltage	190 – 300V				
Frequency	40 – 70 Hz				
Power	2600W (3200VA)				2800W (3500VA)
Temperature Range	-10 to 50°C				
Box Protection	IP54				
Length of power supply cable (m)	4500				
Length of welding cable (m)	5, 10 or 15 detach				
Weight with / without cable	18kg / 20kg				23kg/ 25kg
Display	4 lines, 20 characters per line, 5mm character height				8mm character height

Required Generator Specifications

Maximum alternating voltage range 190V (AC) to 300V (AC)	Min required generator output power 230V, 50Hz, 1-phase	
Frequency 40 – 70 Hz		
Suitable to drive inductive loads and phase cut systems.	Diameter	Output Power
No load voltage adjustable to 240V-260V	20-75 mm	2 kW
Output current of 18 amps at 240V - one phase	90-160 mm	3.2 kW
Stable output voltage and engine speed also at fast alternating loads	160-355 mm	4.5kW (mechanically controlled) 5 kW (electronically controlled)
Synchronous generators with mechanical speed control preferred.		
Voltage peaks must not exceed 800V		

For generators with insufficient control performance or voltage control, it has to be selected 3-3.5 times higher output power than the stated ones to achieve an undisturbed operation. Electronically controlled generators tend to oscillate with the control of the welding process, which can lead to high output voltage peaks. Please test suitability before using this kind of generator.

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PF – CONTROL BOX ACCESSORIES

Welding Cables

PF20610008	Monomatic or Digimatic 5m detachable with plug
PF20611008	Monomatic or Digimatic 10m detachable with plug
PF20611108	Monomatic or Digimatic 10m detachable with plug
PF20610006	PF weld cable 5m for Polymatic Plus with temperature sensor & bar code pen preparation (without pen)
PF20611006	PF weld cable 10m for Polymatic Plus with temperature sensor & bar code pen preparation (without pen)
PF20611106	PF weld cable 15m for Polymatic Plus with temperature sensor & bar code pen preparation (without pen)
PF10200001	PF Welding Plug 4.7mm (black outlet)
PF20200003	PF Welding Plug 4.7mm (red outlet)
PF10410003	PVC cap for welding plug – Black
PF10410004	PVC cap for welding plug – Red

Adaptors

Different adaptors are available to enable connections with different terminal pins & simplify connections to awkward terminal locations.

PF20200005	4.7/4.7 90 ° angle – FOR USE WITH FUSAMATIC AUTOMATIC FITTINGS AND OTHER FITTINGS
PF10300009	4.7/4.7 90 ° angle – NOT FOR USE WITH FUSAMATIC AUTOMATIC FITTINGS, FOR OTHER FITTINGS
PF20200006	4.7/4.0 round 90 ° angle - FOR USE WITH FUSAMATIC AUTOMATIC FITTINGS AND OTHER FITTINGS
PF10300004	4.0 – 4.7 round 90 ° angle connects Geo Fischer lead to Plasson fitting
PF10300001	4.7/4.0 round 90 ° angle (Friatec & Geo Fischer)
PF10300002	4.7mm to flat plug (Friatec)
PF12800002	Grey adaptor storage bags for PF Control Boxes

Bar-Code Readers & Accessories

PF10100001	Reading Pen DL2
PF10120001	Portable barcode scanner
PF10120004	Portable barcode scanner with 10cm range
PF12800003	Barcode scanner bag

Printing & Downloading

PF41000001	PF Memomatic 2MB data box, inc. power supply, cables & printer converter
PF41000002	Printer converter serial to parallel
PF12700005	Adaptor for serial transfer to PC (Female to female 25 pin)
PF12700006	Adaptor for serial transfer to PC (25 pin to 9 pin)
PF12700002	PF Memomatic power supply (spare part)
PF20615001	Transfer cable 2m, PF box to PC (Din plug male to sub-D 25 pin male) (spare part)
PF20615003	Transfer cable 2m, PF Memomatic to PC (Din plug male to sub-D 25 pin female) (spare part)

Software

PF42000003	PF datamatic easy ver 1.00 (includes PF20615001 Transfer cable)
PF42000001	PF datamatic ver 1.00 (includes PF20615001 Transfer cable)
PF42000002	PF datamatic plus ver 1.00 (includes PF20615001 Transfer cable)

General

PF12800005	PF Transport box
PF12700003	Polymatic Welder ID card copy (for PF-polymatic plus)
PF12700004	Polymatic Welder ID card subsequent copies (for PF-polymatic plus)
PF12700007	Polymatic Operator ID card (for PF-polymatic plus)

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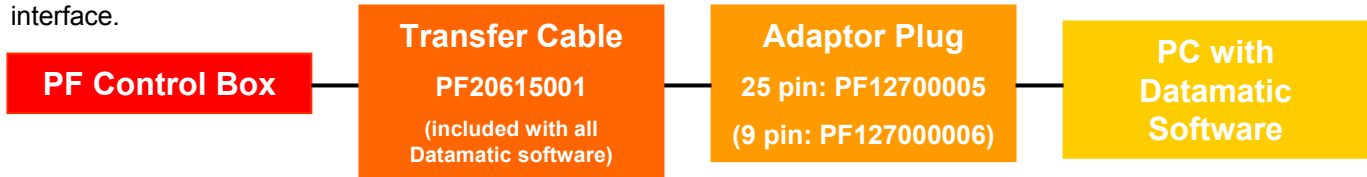
DATA TRANSFER AND STORAGE

The PF control boxes with data storage capability can communicate with IBM compatible PC's loaded with Datamatic software, Memomatic record storage units and parallel printers.



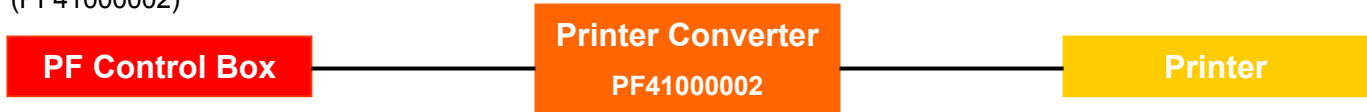
PF Box to PC

Data can be downloaded directly to an IBM compatible PC. The diagram details the required transfer cables and the adaptors along with their catalogue numbers. The Datamatic PC software (PF3200001) for the Windows 95 allows data transfer from the PF box in a operator friendly environment. Once downloaded the data can be imported into other database management programs such as Microsoft Excel. The Datamatic Plus (PF3200002) software offers data sorting functions, control box maintenance information and error statistics. The Datamatic Easy (PF3200003) software offers the same features as the Datamatic (PF3200001) but without an export interface.



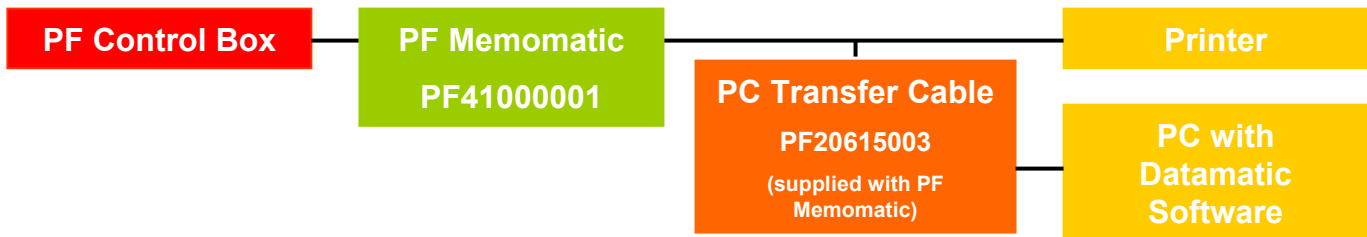
PF Box to Parallel Printer

The PF boxes with data transfer capability can also print directly using the serial to parallel Printer Converter (PF41000002)



PF Box to Memomatic Data Storage Unit to Printer or PC

The PF Memomatic (PF41000001) is a portable storage device capable of storing up to 4,500 weld records (2MB of memory). It is designed for collecting data from weld boxes in the field and then printing or downloading to a PC when convenient. The PF Memomatic comes complete with PF box to Memomatic transfer cable and a power supply. A Memomatic to PC transfer cable is required to download the Memomatic to a PC.



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