

# PLASMAFIX P+T POWER SOURCE

FOR MICROPLASMA AND TIG WELDING

## THE MICROPLASMA AND TIG POWER SOURCE FOR MOST ACCURATE PULSED PRECISION WELDING OF HIGHEST QUALITY

The most usual applications of this fully programmable and transistorized power source are for example the welding operations of the following types of instrument manufacturing:

- medical
- thin sheets
- instrumentation
- automotive components
- vacuum
- bellows
- sensors
- chemical seals

### BENEFIT FROM THE P+T ADVANTAGES

- Rugged housing with steel frame
- Extremely stable ejectable cylindrical arc with no arc wandering at plasma welding
- Ignition: Top reliability and high performance through pilot arc
- Controllable amount of energy (energy-management)
- Equipped with 16-bit microprocessor control system
- 100 different welding sequences with respective functions and parameters can be programmed and saved
- Printer interface for quality monitoring
- Possibility to connect PC via interface RS 232
- <master slave> capability
  - Power source controls peripheral equipment
  - Various welding programs can be selected by PC
- Plasma torch can easily be converted to TIG torch
- Error diagnostic program
- Alarm signal to monitor electrode wear
- Suitable for use in environments with increased electrical hazard level(s)



### ADDITIONAL ADVANTAGES

- Plasma and TIG welding, all in one
- Easy to operate
- Absolute reproducibility of parameters
- Process monitoring capability
- High reliability
- Power source with cooling system, on demand available on movable carriage

### EASY TO PROGRAM. EASY TO OPERATE

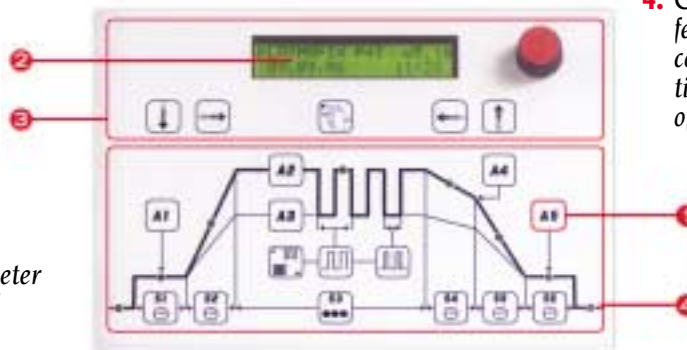
1. When pressing a push-button, the corresponding LED is illuminated & the display instantly shows its respective reading

2. Alpha numerical multilingual display:

- of the modified parameter
- of the actual values of current & voltage

3. Simple touch control to:

- call or save a program
- choose menu & parameters
- change parameters with main dial



4. Clearly visualized front panel featuring welding cycle with corresponding current A1 ...A5, times S1 ...S6 & the possibility of pulsed mode operation

**PROCESS WELDING SYSTEMS, INC.**

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# PLASMAFIX P+T POWER SOURCE

TECHNICAL DATA

## MICROPLASMA POWER SOURCE—PLASMAFIX P+T

### MAINS CONNECTION

Power supply, 3-phase	(V)	230/400/440
Frequency	(Hz)	50/60
Constant current at 100% D.C.		
• at 230 V	(A)	9,3
• at 400 V	(A)	5,4
• at 440 V	(A)	4,9
Continuous rating max.	(kVA)	3,4
Fuse protection	(A)	10

### WELDING PERFORMANCE

Welding range		
• Plasma	(A)	0,06 ...50
• TIG	(A)	0,6 ...50
Welding current		
• Plasma at 100% D.C.	(A)	50
• TIG at 60% D.C.	(A)	50

### EQUIPMENT PROTECTION

Degree of protection	IP 23
Standards	EN 60974.1/CE

### DIMENSION & WEIGHT

Dimensions L x W x H	(mm)	630 x 355 x 730
Weight	(kg)	95

## COOLING UNIT PLASMACOOL

Operating pressure	(bar)	5,2
Flow rate idle	(l/min)	6,3
Flow rate in operation	(l/min)	3,7
Tank content	(Liter)	6
Cooling capacity	(W)	2272

### EQUIPMENT PROTECTION

Degree of protection	IP 23
Standards	EN 60974.1

### DIMENSION & WEIGHT

Dimensions L x W x H	(mm)	720 x 360 x 340
Weight	(kg)	36

### FOLLOWING OPTIONS ARE AVAILABLE

• Double foot switch	EG 307 368 -U
• Pedal for current regulation	EG 416 938 -T
• Pedal for spot welding	EG 416 969 -T
• Printer	EG 780 847
• Printer cable RS 232, length 3m	EG 780 849
• Thermal paper for printer (1 pc)	EG 780 848
• Connecting cable for PC (zero modem RS 232 C25/9 pin)	EG 780 851

## ORDERING INFORMATION

## PART NUMBER

Microplasma power source *PLASMAFIX P+T* with gas hose SA 9258 0320  
2m for plasma gas (pilot gas) & gas hose 2m for inert gas including mains cable 3m with attached main plug

## TORCH FOR MICROPLASMA OR TIG

*for microplasma welding up to 50 A*

Manual torch water-cooled

Microplasma torch MP 5-13, length 4m EG 418 463 -T

Microplasma torch MP 5-13, length 8m EG 418 464 -T

Machine torch water-cooled

Microplasma torch MP 5-21, length 4m EG 418 506 -T

Microplasma torch MP 5-21, length 8m EG 418 507 -T

Accessories kit for MP 5-13/21 EG 421 732 -T

*for microplasma welding up to 20 A*

Manual torch water-cooled

Microplasma torch MP 2-12, length 4m EG 418 473 -T

Microplasma torch MP 2-12, length 8m EG 418 474 -T

Manual torch water-cooled

Microplasma torch MP 2-21, length 4m EG 418 936 -T

Microplasma torch MP 2-21, length 8m EG 418 937 -T

Accessories kit for MP 2-12 EG 418 338 -T

Accessories kit for MP 2-21 EG 421 774 -T

## TORCH FOR TIG WELDING

Ground cable 16mm<sup>2</sup> DIX/cable socket, length 5m EG 416 784 -T

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