



Pioneer 401 MKS/MSR



Pioneer 401 MSR-MKS



Solid Construction, Light Weight

- Metal body for power source and wire feeder.
- Handles and prominent plastic edges to protect knobs and welding outlets.
- Thanks to its light weight it can be moved anywhere rather easily.



Cooling Unit C.U.07B (optional)

- C.U.07B is robust, powerful and can be easily connected to the power source.
- It's placed in the back of the power source in order to minimize space, volume and to improve movement.



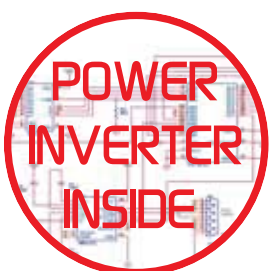
Working Conditions, Maintenance

- Pioneer can be used in any adverse working condition thanks to an accurate and advanced manufacturing, powerful motors and reliable components, high duty factor at 40°C, ventilation tunnel to protect its internal parts from dust, well dimensioned air inlet louvers.
- IP23 enclosure protection degree certifies both indoor and outdoor use.
- Easily accessible for regular maintenance.



Remote Controls

- Connector with insulated pins for remote control of welding parameters.
- Torches with potentiometers and up/down switches can be used as well.

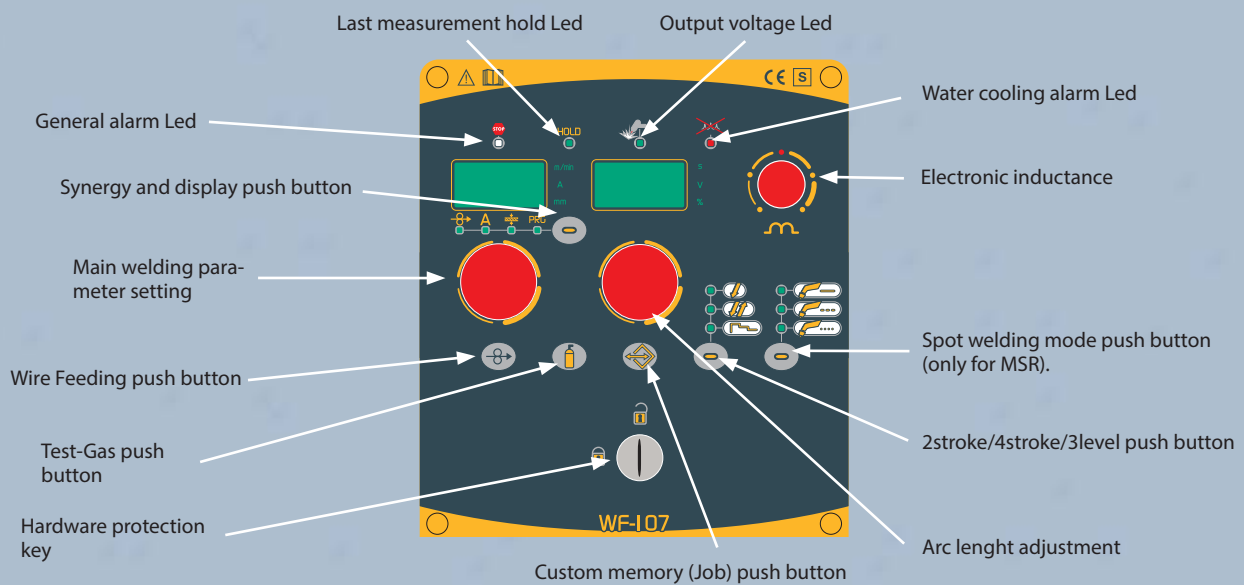


Power Inverter Inside

- Higher efficiency and better welding quality than conventional power sources.
- Overall weight reduction for easier transportation and movement.
- Weco Inverter supplies a better quality welding arc, with no spattering, repeatable in time and unaffected by main voltage fluctuation.
- Reworking time and money saving.
- Real lower overall electric consumption.

Control Panel

Easy setting of welding parameters



Easy selection of synergic welding curves



Set of the desired Synergic Curve

Select main welding parameter

Set main welding parameter

Welding!

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Digital Intelligence Inside

- Power source functions self-check in real time.
- Synergic programs for many applications available.
- Customized welding parameters.
- Hardware protection with key of welding settings.
- Welding operations can be replicated in time.
- A top quality instrument in certified welding procedures.

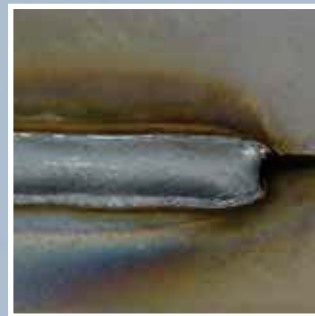


Digital Inductance

- Allows you to optimize arc dynamic in any welding condition.
- Step-less regulation.
- Precise and complete synergic settings.



BURN BACK:
An optimal wire cutting at the end of welding helps perfect starts.



SOFT START:
Approaching speed of wire and welding dynamics are totally synergic giving low spattering at start, in any type of material.



SPOT WELDING:
Dedicated controls, low spattering and high execution-speed allow you to get perfect welding spots.

Real Synergic Welding (all you need is a knob!)

- 35 synergic programs.
- Optimized programs for Flux Core Wires and high Performance Wires.
- Optimal welding results for welders at all levels.
- Second level menu available for experts.

Synergic programs					
Wire Diameter	0,8	1,0	1,2	1,4	
Display	on the right				on the left
Manual Welding	P0				PRn
SG2/SG3 (80%Ar-20%CO2)	P1	P2	P3	--	FE
SG2/SG3 (92%Ar-8%CO2)	P4	P5	P6	--	FE
SG2/SG3 (100%CO2)	P7	P8	P9	--	FE
INOX 308 (98%Ar-2%CO2)	P10	P11	P12	--	S.S.
INOX 316 (98%Ar-2%CO2)	P13	P14	P15	--	S.S.
AlMg5 (100%Ar)	--	P17	P18	--	AL
AlSi5 (100%Ar)	--	P20	P21	--	AL
CuSi3 (100%Ar)	P22	P23	--	--	CUS
CuAl8 (100%Ar)	--	--	--	--	CUR
RFCW (80%Ar-20%CO2)	--	--	P28	P29	rFC
BFCW (80%Ar-20%CO2)	--	--	P30	P31	bFC
MFCW (80%Ar-20%CO2)	--	--	P32	P33	mFC
Free Programs	P34				nPr



Display, Led and Knob for Synergic programs setting.



HAC (Hybrid Arc Control) Flawless Welding Arc

- Soft and very stable welding arc.
- Low heat input both in Short and Spray Arc.
- Small Globular arc range. Welding is always perfect.
- Low spattering even with a high level of CO2 mixed gas
- Quality of weld beads is just like the one you have in pulsed welding.
- Inductance and start/finish parameters are optimized in the synergic setting.
- Recommended for special applications like welding on Laser cut sheets without reworking, fillet welds on thin sheets with small deformations, and low residual stress. Accurate when you need to weld plates with relevant gaps...



SPRAY ARC: HAC allows you to have a short spray arc with better penetration of the root, lower heat input and higher welding speed with no edge cutting and spattering.



WELDING POSITION: HAC gives an optimal fusion of the bead's edges in short arc welding and to make overhead and vertical up position welding easier.



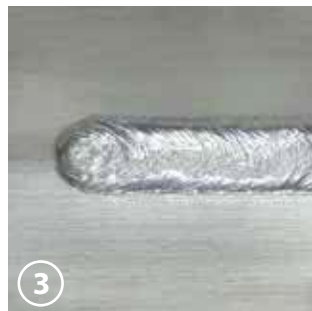
PG POSITION: HAC allows thin plates welding in vertical down position with gap up to 5mm wide.



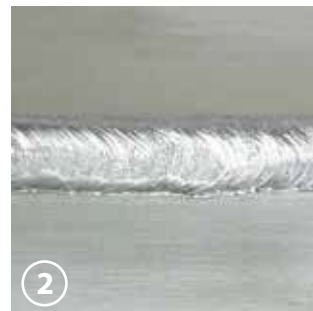
THIN PLATES: HAC gives smooth and controlled short arc at lower parameters too. Low spattering, good edge wetting, low heating and small deformation are achieved in thin plate welding.



3T SPECIAL: allows you to set and recall 3 different current levels by pushing the trigger switch in order to achieve top quality weld beads: Highly recommended for Aluminum welding.



LEVEL 3: A low current ends the welding optimally by filling the crater on weld beads.



LEVEL 2: The welding current is optimized with the plate thickness and the requested weld.



LEVEL 1: A correct initial current gives optimal penetration from welding start.



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	3x400Vac ± 15% @ 50-60Hz		
	25A		
	MIG/MAG		
$\%_{0_{40^{\circ}C}}$	50%	60%	100%
$\cdot I_2$	400A	360A	320A
$\%_{RT}$	80%	-	100%
$\cdot I_2$	400A	-	360A
I_2	20A – 400A		
U_0	53V(9V)		
$P_{1\ MAX}$	18,8KVA -15,5KW		
IP	23S		
	1110 x 550 x 805mm		
	76,0 MKS -72,5 MSR (Kg)		

Wire Feeder

Machine Type	Pioneer 401 MKS	Pioneer 401 MSR
Wire Feeder	Integrated	WF 107
	42 VDC	42 VDC
P_{MAX}	120 W	120 W
r.p.m.	270	270
	2,0÷22,0 m/min.	2,0÷22,0 m/min.
IP	-	23S
	-	670x246x470
	-	21,5kg

C.U.07B

	1x230Vac ± 15% @ 50-60Hz
	1,35A
$P_1\ L/MIN$	1.10kW
P_{MAX}	0,44MPa
	3,0l
IP	23S
	280 x 142 x 570mm
	12,0Kg



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EN 60974-2



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