



PATON MultiPRO Series Multiprocess Welding Inverter User Manual

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PATON MultiPRO Series Multiprocess Welding Inverter



Specifications

Model: PATON MultiPRO-250 / 270-400V / 350-400V

• Processes: MMA/TIG/MIG/MAG

 Input Voltage: 270 (MultiPRO-250) – 450 (MultiPRO-270/350-15-4-400V)

• Output Current Range: 80A - 525A

• Duty Cycle: Varies based on process and current settings

Product Usage Instructions

MMA Welding

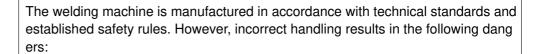
- 1. Connect the MMA electrode holder to the positive terminal.
- 2. Connect the workpiece clamp to the negative terminal.
- 3. Set the current range based on the electrode diameter and material thickness.
- 4. Start welding by striking the electrode against the workpiece.

TIG Welding

- 1. Connect the TIG torch to the machine.
- 2. Connect the workpiece clamp to the negative terminal.
- 3. Adjust the gas flow and tungsten electrode accordingly.
- 4. Initiate the arc and begin welding on the workpiece.

MIG/MAG Welding

- 1. Install the appropriate wire feed and gas supply for MIG/MAG welding.
- 2. Set the wire speed and voltage according to the material and joint type.
- 3. Start welding by activating the trigger on the torch.





- injury of maintenance personnel or third persons;
- damage of the machine or property of the enterprise;
- derangement of efficient working process.

All persons dealing with start-up, operation, attendance and maintenance of the machine must:

- undergo relevant qualifying examination;
- have knowledge about welding;
- carefully follow these instructions.

Malfunctions that can reduce safety must be eliminated immediately.

SAFETY RULES

DANGER OF MAINS AND ARC CURRENT



- electric shock can lead to death;
- magnetic fields created by this machine can have adverse effect on operability of f electrical appliances (such as cardiac pacemakers). People who use such appliances shall consult with a doctor before approaching the operating welding area;
- welding cable must be robust, intact and insulated. Loose connections and dam aged cables must be immediately replaced. Mains cables and cables of the weldin g machine must be checked for insulation integrity by an electrical engineer on a r egular basis;
- when using the machine, never remove its outer case.

DANGER OF WELDING ARC RADIATION



It is forbidden to observe the welding arc with the naked eye. The arc and splashing generated during operation can burn the skin or cause a flame, therefore a protective mask with a tinted filter should always be worn (goggles must be equipped with goggles with a DIN 9 10 filter). Unauthorized persons in the operating area of the device must protect their eyes with special goggles or use non-flammable,

radiation-absorbing screens.

DANGER OF HAZARDOUS GASES AND VAPOURS

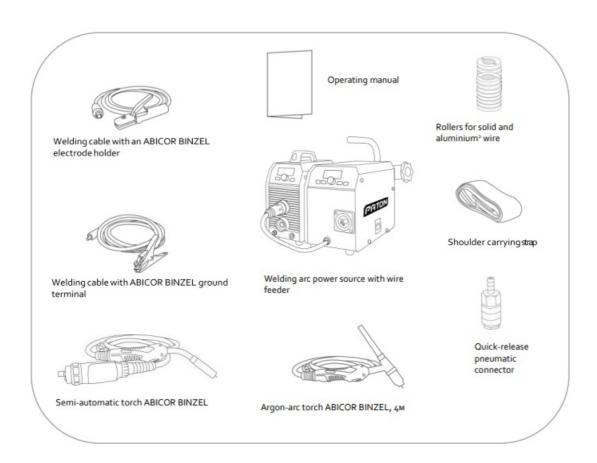


- if smoke and hazardous gases emerge in the operating zone, remove them with special means;
- provide sufficient fresh air inflow;
- arc radiation field must be free from solvent vapours.

_	DANGER OF MAGNETIC FIELD
	Magnetic fields created by this machine can have adverse effect on operability of electrical appliances (such as cardiac pacemakers). People who use such applian ces shall consult with a doctor before approaching the operating welding area.
	DANGER OF SPARKING
	- remove flammable objects from the operating zone;
&	 it is not allowed to weld vessels where gases, fuel or oil products are stored or used to be stored. Residues of these products may explode;
	 when working in fire-dangerous or explosion-dangerous rooms, adhere to speci al rules in
	compliance with national and international regulations.
	INDIVIDUAL PROTECTIVE EQUIPMENT
	To ensure individual protection, adhere to the following rules:
	 wear robust footwear, which retains insulating properties in moist conditions as well;
77	- protect the hands with insulating gloves;
*	- protect the eyes with a headshield, with is equipped with a black-light filter comp lying with
	safety standards;
	- wear only proper low-flammable clothes.
	DANGER OF INTENSE NOISE
	The arc generated during welding can emit sounds above 85 dB during 8 hours of working time. Welders working with the equipment wear ear protection during wor k.

UNPACKAGING

The delivery set of the device includes:



CONTROL ELEMENTS AND INDICATION



- 1. Digital display;
- 2. Welding mode selection button:
 - · manual metal arc welding, MMA;
 - tungsten-arc inert-gas welding, TIG;
 - metal-arc inert-gas welding/metal active gas welding, MIG/MAG;
- 3. The regulator for selecting the functions (parameters) of the current mode and adjusting their values/Setting-up the welding voltage parameter in MIG/MAG mode. The selection of functions is done by turning the knob to the right and left. To move to editing the value of a selected parameter, you need to press the regulator knob. Values are set by turning the regulator knob. To return to the function/parameter selection menu, press the regulator knob again;
- 4. Welding program selection button (set of parameters previously set by the user) / additional function: Inductance level adjustment (when it is pressed down for more than 1 second);
- 5. Button for testing shielding gas supply (wire is not fed);
- 6. Button for adjusting the welding voltage on the wire feeder;
- 7. The regulator for selecting the functions (parameters) of the current mode and adjusting their values on the wire feeder (by default adjusting the wire feed speed in MIG/MAG mode);
- 8. Torch button mode indicators (mode 2t/4t/alt.4T);
- 9. Button for selecting functions of the wire feeder;
- 10. Button for testing shielding gas supply (wire is not fed);
- 11. Power supply plug to the wire feeder;
- 12. EURO type KZ-2 connector for connecting a semi-automatic torch;
- 13. Connector for controlling torch buttons (TIG welding);
- 14. Socket for shielding gas supply to the torch (TIG welding);
- 15. Lifting protective cover for wire feeder compartment;
- 16. Protective cover lock;
- 17. Protective cover for wire coil;
- 18. Wire coil holder with spring-loaded braking device;
- 19. Shielding gas connection (MIG/MAG welding);
- 20. Connector for the control cable from the wire feeder;
- 21. Breaker/button for turning on/off the machine;
- 22. Connection for shielding gas supply from a gas cylinder (TIG welding);
- 23. Location for connecting the grounding cable;
- 24. Wire feeder and gas heater fuses;
- 25. Socket for 36V gas heater;
- 26. Power supply cable;
- 27. A Bayonet-type power current socket "+":
 - MMA welding the electrode cable is connected (in more rare cases, when using special electrodes, the ground cable is connected);
 - TIG welding only the ground cable is connected;
 - MIG/MAG welding with solid wire the cable is connected to the feeder from inside (by default);
 - MIG/MAG welding with flux-cored wire the ground cable is connected;
- 28. B Bayonet-type power current socket "-":
 - MMA welding the ground cable is connected (in more rare cases, when using special electrodes, the

electrode cable is connected);

- TIG welding only the TIG torch is connected;
- MIG/MAG welding with solid wire the ground cable is connected;
- MIG/MAG welding with flux-cored wire the cable is connected to the feeder from the inside (it is
 possible to connect it yourself);

INDICATION OF MACHINE OPERATION IN MODES



- 1. Current welding mode
- 2. Current program number
- 3. Name of function / parameter
- 4. Value of selected function / parameter
- 5. List and values of the next 2 parameters in the menu

START-UP

The welding unit is designed exclusively for MMA welding, tungsten-arc inert-gas (TIG) welding, as well as metalarc inert-gas welding/metal active gas welding (MIG/MAG). Other use of the machine is considered undue. The manufacturer is not responsible for damage cause by undue use of the machine. Intended use of the machine implies adherence to instructions of this operating manual.

INSTALLATION REQUIREMENTS

The machine must be placed so as to ensure free inlet and outlet of cooling air through vent holes on the front and the rear panels. Take care that metal dust (for example, during emery grinding) does drawn directly into the machine by the cooling fan.

POWER CONNECTION

The standard welding machine is rated for:

- 1. Mains voltage is 220V (-27% +18%) for MultiPRO-250 model;
- 2. Three-phase mains voltage is 3x380V or 3x400V (for MultiPRO-270 and MultiPRO-350-15-4-400V models), three wires are dedicated for this. Safety rules when working with welding equipment require grounding of the unit housing. There are two ways to do this: 1) by using the fourth wire in the mains yellow-green cable (international marking standard); 2) by using a bolted terminal on the rear wall of the unit (a stricter grounding standard, used in the CIS countries).

Caution!

- When the unit is connected to a mains voltage higher than 270V (for MultiPRO-250) or 450V (for MultiPRO-270/350-15-4-400V models), all manufacturer's warranty obligations become invalid! The manufacturer's warranty obligations also become invalid in case of an erroneous connection of the mains phase to the source ground.
- The mains connector, the cross-sections of the mains cables, as well as the mains fuses need to be selected based on the unit technical data.

SELECTING THE DEVICE MENU LANGUAGE

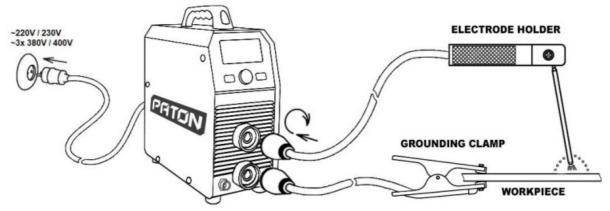
To select/change the menu language of the device, hold down button 2 and turn on the device. After that, the language selection menu will be displayed on the screen. You can select the desired language using the regulator 3 and confirm your choice by pressing the button 4. Then, the machine will continue working with the interface in the corresponding language.

Used MMA el ectrode	Set current value for MMA and TIG	Wire cross-section di ameter for MIG/MAG	Cross-section of each co re of the mains wire, sq. mm	Max. wire len gth, m
1x220V – Multi	PRO-250			
			1	75
			1.5	115
			2	155
<i>Ø</i> 2 mm	not more than 80A	not more than Ø0.6 mm	2.5	195
			4	310
			1.5	75
			2	105
			2.5	130
<i>Ø</i> 3 mm	not more than 120A	t more than 120A not more than Ø0.8 mm	4	205
			6	310
			2	75
			2.5	95
<i>Ø</i> 4 mm	not more than 160A		4	155
			6	230
			2.5	75
<i>Ø</i> 5 mm	not more than 200A	not more than Ø1.0 mm	4	125
			6	185
			2.5	60
<i>Ø</i> 5 mm	up to 250 A	not more than Ø 1.2 m	4	100
Ø6 mm fusible	up to 250 A	m	6	150

Used MMA electrode	Set current value for MMA and TIG	Wire cross-section di ameter for MIG/MAG	Cross-section of ea ch core of the main s wire, sq. mm	Max. wire len gth, m
3 x 380/400V – MultiPR	O-270-400V, MultiPF	RO-350-400V		
			1,0	135
			1,5	205
			2	270
Ø2 mm	no more than 80A	no more than Ø0,6 mm	2,5	340
			4	540
			1,5	135
			2	175
			2,5	220
<i>Ø</i> 3 mm	no more than 120A	no more than Ø0,8 mm	4	350
			6	525
			2	130
			2,5	160
Ø4 mm	no more than 160A		4	260
			6	385
			2,5	115
Ø5 mm	no more than 220A	no more than Ø1,0 mm	4	180
			6	270
			2,5	85
Ø6 mm fusible	no more than 270A	no more than Ø1,2 mm	4	135
	 	, , , , , , , , , , , , , , , , , , , ,	6	205
			2,5	65
Ø6 mm	up to 350A	no more than Ø1,4 mm	4	100
			6	150

ATTENTION! Supply button on the rear panel of the machine (for MultiPRO-250) is not a power button, so it does not provide complete de-energization of internal electronic parts, when the machine is switched off. Therefore, in accordance with safety rules, d isconnect the plug from the mains after completion of welding.

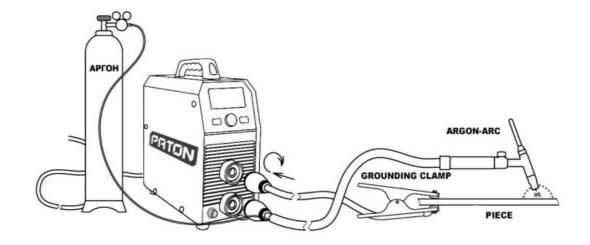
MACHINE CONNECTION DIAGRAM FOR WELDING WITH STICK ELECTRODES (MMA)



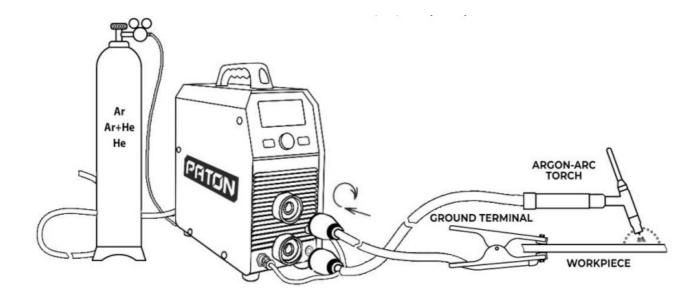
Recommended length of power welding cables during welding:

Maximum current	Cable length (one way)	Cross-section area	Cable brand
not more than 100A	2 9 m	10 mm ²	KG 1x10
not more than room	314 m	16 mm ²	KG 1x16
not more than 160A	2 9 m	16 mm ²	KG 1x16
not more than room	314 m	25 mm ²	KG 1x25
not more than 200A	2 7 m	16 mm ²	KG 1x16
	310 m	25 mm ²	KG 1x25
not more than 250A	28 m	25 mm ²	KG 1x25
	312 m	35 mm ²	KG 1x35
not more than 270A	5 11 m	35 mm ²	KG 1x35
up to 350A	6 14 m	35 mm ²	KG 1x35

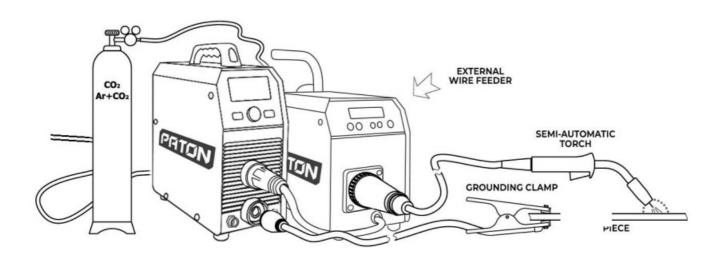
MACHINE CONNECTION DIAGRAM FOR TUNGSTEN-ARC INERT-GAS (TIG) - TIG-LIFT



MACHINE CONNECTION DIAGRAM FOR TUNGSTEN-ARC INERT-GAS (TIG) – 2T/4T/alt.4T



MACHINE CONNECTION DIAGRAM FOR METAL-ARC INERT-GAS WELDING/METAL ACTIVE GAS WELDING (MIG/MAG)



TECHNICAL PARAMETERS

PARAMETERS	MultiPRO-250	MultiPRO-270-400 V	MultiPRO- 350-400V
Rated voltage of the three-phase mains 50 / 60Hz , V	220 230	3x380 3x400	3x380 3x400
Rated current consumption from the mains phase, A	29,6 35,1	12,1 14,1	16,2 18,7
Rated welding current, A	250	270	350
Maximum operating current, A	335	350	450
Duty cycle	60%/at 250A 100%/at 193A	70%/at 270A 100%/at 225A	70%/at 350A 100%/at 290A
Supply voltage variation limits, V	160 – 260	±15%	±15%
Limits of regulation of welding current, A	12 – 250	12 – 270	14 – 350
Limits of regulation of welding voltage, V	12 – 28	12 – 29	12 – 30
Limits of wire feed speed control, m/min	1,6 – 6,0	1,6 – 6,0	1,6 – 6,0
MMA electrode diameter, mm	0,6 – 1,2	0,6 – 1,2	0,6 – 1,4
Welding wire diameter, mm	4-roller with drive on all rollers		
Maximum coil weight, kg	15	15	15
Welding pulse modes	MMA: 0,2500 Hz TIG: 0,2500H z MIG/MAG: 30 300	MMA: 0,2500Hz TIG: 0,2500Hz MIG/MAG: 30 3 00	MMA: 0,2500Hz TIG: 0,2500Hz MIG/MAG: 30 3 00
"Hot-Start" in the MMA mode	+		

"Arc-Force" in MMA mode	Adjustable		
"Anti-Stick" in the MMA mode	Adjustable		
Voltage reduction unit, no-load	Adjustable		
No-load voltage reduction unit in MMA mode	on / off		
Arc striking voltage, V	12 / 75		
No-load voltage in MMA mode, V	110		
Rated consumption power, kVA	6,6 7,8	8,0 9,4	10,7 12,3
Maximum power consumption, kVA	9,5	11,4	15,3
Efficiency, %	90		
Cooling	Adaptive		
Operating temperature range	−25 +45°C		
Overall dimensions, mm (length, width, height)	360 x 260 x 270	540 x 360 x 400	540 x 360 x 400
Weight without coil and accessories, kg	14,1	16,5	16,9
Protection rating	IP33	IP33	IP33

SELECTING AND SETTING THE FUNCTIONS OF THE MACHINE

If you do not press the buttons on the front panel, the unit displays the value of the main parameter of the current welding mode on the digital indicator on the left:

- 1. in the MMA mode welding current;
- 2. in the TIG mode welding current;
- 3. in the MIG/MAG mode welding voltage.

On the digital display in the MIG/MAG welding mode, the actual welding current value is shown during the welding process. It is worth noting that the actual welding current value is influenced by several factors, including the wire diameter used, the set welding voltage on the power source, the wire feed speed set on the feeder mechanism, the shielding gas used, the material and thickness of the welded workpiece, among others. After the welding process is completed, the actual welding current value remains displayed on the machine's screen for 8 seconds, allowing the welder to view the current value.

Regulator 3 on the front panel is multifunctional and is responsible for:

- 1. selecting any function in the current welding mode (turning left and right);
- 2. setting the value of the selected parameter (press the regulator and turning left or right);
- 3. reset all functions to factory settings of the current program of the current welding mode (press the regulator and hold for more than 12 sec.).

Button 2 on the front panel of the unit is responsible for selecting the welding mode.

SWITCHING TO THE REQUIRED FUNCTION

- If the machine has an active protection system against unauthorized access to the function menu, then when turning the regula tor 3, adjustment of the value of the main parameter of the current welding mode occurs, also this means that the function menu is locked. To unlock it, press and hold down regulator 3 for more than 3.5 seconds. When unlocking, the indicator displays an image of opening lock, indicating the process of unlocking the function menu. After successful unlocking, when turning the regulator 3 to the right or left, the current name of the function and its value will be displayed on the digital display.
- Similarly, by pressing and holding the regulator knob 7 on the wire feed unit for more than 3.5 seconds, the menu is unlocked, and the name and value of the function for the current welding mode are displayed on the digital screen 8. By pressing the regulator knob 8 and turning it left or right, you can switch between functions and parameters of the mode and also adjust their values.

SWITCHING TO THE REQUIRED WELDING MODE

Pressing button 2 leads to switching to the next welding mode in a circle, this can be seen on display 1 on the front panel.

RESET ALL FUNCTIONS OF THE WELDING MODE USED

- Situations may occur when the unit's settings have somewhat confused the user. In order to reset them to the standard factory settings, it is enough to press and hold down regulator 3 for more than 10 seconds (ignore the animation of the lock symbol). The scoreboard will start counting down 333...222...111 and when "000" is reached, all settings of the selected program of the current welding mode will be updated to factory settings. Reset parameters for each program each welding mode are made separately. This is provided for convenience, so as not to reset individual settings in the other programs and welding modes.
- Similarly, you can reset the parameters of current welding mode on the wire feeder by using the regulator 7.

CHANGE PROGRAM NUMBER IN CURRENT WELDING MODE

- In each MMA, TIG, and MIG / MAG welding mode, it is possible for the user to save up to 16 different presets.
 The current preset (program) number is displayed in the upper right corner of the LCD of the source on the front panel. At the moment of the first switching on of the machine, the program is always under No. 1 for each welding mode.
- All changes in the setting of the machine in this welding mode and the current program number are saved. To switch to another program number and start setting again from the basic parameters, just press button 4 on the welding current source (or button 9 on the wire feeder).
- Then the LCD displays the current program number, which can be changed up or down by turning the regulator 3 (or the regulator 7 on the wire feeder) to the right or left. It is necessary to confirm the program selection by pressing the corresponding regulator knob 3 or 7.

GENERAL LIST AND SEQUENCE OF FUNCTIONS

MMA welding mode

- 1. [-1-] main displayed parameter CURRENT = 90A (by default) / it is the basic current when the PULSE function is on
 - 12 ... 250A (change step 1A) for MultiPRO-250
 - 12 ... 270A (change step 1A) for MultiPRO-270

- 14 ... 350A (change step 1A) for MultiPRO-350
- 2. [H.St] Hot start power = 40% (by default)
 - 0[OFF] ... 100% (change step 5%)
- 3. [t.HS] Hot start time = 0.3 sec (by default)
 - 0.1 ... 1.0 sec (change step 0.1 sec)
- 4. [Ar.F] Arc Force power = 50% (by default)
 - 0[OFF] ... 100% (change step 5%)
- 5. [u.AF] Arc force trigger level = 12V (by default)
 - 9 ... 18V (change step 1V)
- 6. [CVS] current-voltage characteristic slope = 1.4 V/A (by default)
 - 0.2 ... 1.8 V/A (step change 0.4 V/A)
- 7. [Sh.A] short arc welding = OFF (by default)
 - 0[OFF] ... 3 stages (unit increment 1 stage)
- 8. [BSn] voltage reduction unit = OFF (by default)
 - ON enabled
 - · OFF disabled
- 9. [Po.P] current pulsation mode = OFF (by default)
 - ON enabled
 - OFF disabled
- 10. [I.PS] pause current = 25A (by default)
 - 12 ... 250A (change step 1A) for MultiPRO-250
 - 12 ... 270A (change step 1A) for MultiPRO-270
 - 14 ... 350A (change step 1A) for MultiPRO-350
- 11. [Fr.P] current pulsation frequency = 5.0 Hz (by default)
 - 0.2 ... 500 Hz (dynamic change step 0.1 Hz...1 Hz)
- 12. [dut] pulse/pause ratio (balance) it is the percentage of the current pulse to the period of repetition of these pulses = 50% (by default)
 - 20 ... 80% (change step 2%)

TIG welding mode

- 1. [-2-] main display parameter CURRENT = 100A (by default) / it is the basic current when the PULSE function is on
 - 12 ... 250A (change step 1A) for MultiPRO-250
 - 12 ... 270A (change step 1A) for MultiPRO-270
 - 14 ... 350A (change step 1A) for MultiPRO-350
- 2. [But] torch button mode = HF2T (by default)
 - LIFT contact ignition mode TIG-LIFT
 - LIFT2T contact ignition mode TIG-LIFT2T (welding current stops when the torch button is released)
 - LIFT4T contact ignition mode TIG-LIFT4T (pressing the torch button again reduces the current to the "Final Current" value, followed by welding current shutdown when the button is released)
 - HF2T non-contact ignition mode, TIG-HF2T button mode
 - HF4T non-contact ignition mode, TIG-HF4T button mode
- 3. [t.Pr] pre- gas flow time = 0.4 sec (by default)

- 0.1 ... 25.0 sec (change step 0.1 sec)
- 4. [t.Po] post- gas flow time = 4.0 sec (by default)
 - 1.0 ... 35.0 sec (change step 0.1 sec)
- 5. [Pr.A] current preliminary (pilot arc) = 20A (by default)
 - 12...50A (change step 1A) for MultiPRO-250
 - 12 ... 50A (change step 1A) for MultiPRO-270
 - 14 ... 50A (change step 1A) for MultiPRO-350
- 6. [Po.A] end current (crater filling) = 20A (by default)
 - 12...50A (change step 1A) for MultiPRO-250
 - 12 ... 50A (change step 1A) for MultiPRO-270
- 7. [t.uP] current rise time = 0,2 sec (by default)
 - 0[OFF] ... 15,0 sec (change step 0,1 сек.)
- 8. [t.dn] current down time = 0,2 sec (by default)
 - 0[OFF] ... 15,0 sec (change step 0,1 sec)
- 9. [Po.P] current pulsation mode = OFF (by default)
 - ON enabled
 - OFF disabled
- 10. [I.PS] pause current = 25A (by default)
 - 12 ... 250A (change step 1A) for MultiPRO-250
 - 12 ... 270A (change step 1A) for MultiPRO-270
 - 14 ... 350A (change step 1A) for MultiPRO-350
- 11. [Fr.P] current pulsation frequency = 10.0 Hz (by default)
 - 0.2 ... 500 Hz (dynamic change step 0.1 Hz...1 Hz)
- 12. 11) [dut] pulse/pause ratio (balance) it is the percentage of the current pulse to the period of repetition of these pulses = 50% (by default)
 - 4 ... 80% (change step 2%)
- 13. 12) [SPt] SPOT welding mode = OFF (by default)
 - ON enabled
 - OFF disabled
- 14. [t.SP] dot time = 0,02 sec (by default)
 - 0,01 ... 0,10 sec (change step 0,01 sec)
- 15. [t.PS] pause time = 1,0 sec (by default)
 - 0,3 ... 3,0 sec (change step 0,1 sec)

MIG/MAG welding mode

- 1. [-3-] main displayed parameter VOLTAGE = 19.0 V (by default)
 - 12 ... 28.0V (change step 0.1V) for MultiPRO-250
 - 12 ... 29.0V (change step 0.1V) for MultiPRO-270
 - 12 ... 32.0V (change step 0.1V) for MultiPRO-350
- 2. [SPD] Second main parameter WIRE FEED SPEED = 4.5 m/min (default)
 - 1.0 ... 16.0 m/min (adjustment step 0.1 m/min)
- 3. [t.Pr] pre-gas time = 0.1 sec (by default)

- 0.1 ... 25.0 sec (change step 0.1 sec)
- 4. [t.P0] post- gas time = 1.5 sec (by default)
 - 0.5 ... 25.0 sec (change step 0.1 sec)
- 5. [t.uP] Voltage ramp-up time = 0.1 sec (default)
 - 0[OFF] ... 5.0 sec (adjustment step 0.1 sec)
- 6. [t.dn] Voltage ramp-down time = 0.1 sec (default)
 - 0[OFF] ... 5.0 sec (adjustment step 0.1 sec)
- 7. [But] Torch button mode = [2T] (default)
 - [2T] 2T torch button mode
 - [4T] Standard 4T torch button mode
 - [a4T] Alternative 4T torch button mode
- 8. [Ind] Inductance level = 0 (default)
 - 1. -5 ... 0 ... 5 stage (adjustment step 1 stage)
- 9. [tYP] Wire material type = Steel (default)
 - Steel Steel wire
 - Alum Aluminum wire
- 10. [Po.P] Pulsed current mode = OFF (default)
 - ON enabled
 - OFF disabled
- 11. [t.IP] Pulse duration = 2.2 ms (default)
 - .5 ... 5 ms (adjustment step 0.1 ms)
- 12. [I.PS] Pulse current = 210A (default)
 - 160 ... 320A (adjustment step 1A) for MultiPRO-250
 - 170 ... 360A (adjustment step 1A) for MultiPRO-270-400V
 - 190 ... 450A (adjustment step 1A) for MultiPRO-350-400V
- 13. [I.PS] Base current = 50A (default)
 - 30 ... 80A (adjustment step 5A)
- 14. [Fr.P] Pulse frequency = 100 Hz (default)
 - 30 ... 300 Hz (adjustment step 1 Hz)

WARRANTY

Dear customer!

PATON INTERNATIONAL thanks you for choosing PATON™ products and guarantees high quality and flawless functioning of this product, subject to the rules of its operation.

ATTENTION!!! Before using the equipment, we recommend that you read the operating instructions, and also check the correctness of filling out the warranty card: the model name of the product you purchased, as well as the serial number must be identical to the entry in the warranty card. It is not allowed to make any changes and corrections to the coupon.

WARRANTY POLICY

- PATON INTERNATIONAL guarantees the correct operation of the power source provided that the consumer observes the conditions of operation, storage and transportation.
- ATTENTION! There is no free warranty service in case of mechanical damage to the welding machine!

The main warranty period for welding equipment is:

Unit model	Warranty period
MultiPRO-250	
MultiPRO-270-400V	3 years
MultiPRO -350-400V	

The main warranty period starts from the date the inverter equipment is sold to the end customer.

During the main warranty period, the seller undertakes, free of charge for the owner of PATON™ inverter equipment:

- with mechanical damage that affected the performance of the device (deformation of the case and parts as a
 result of falling from a height or falling on the equipment of heavy objects, falling out of buttons and
 connectors);
- with traces of corrosion, which caused a malfunction;
- out of order due to exposure to its power and electronic elements of abundant moisture;
- failed due to the accumulation of conductive dust inside (coal dust, metal shavings, etc.);
- in case of an attempt to independently repair its components and / or replace electronic elements;
- this equipment, depending on the operating conditions, is recommended once every six months, in order to
 avoid the breakdown of the device, to clean the internal elements and assemblies with compressed air, remove
 the protective cover. Cleaning should be done carefully, keeping the compressor hose at a sufficient distance to
 avoid damage to the soldering of the electronic components and mechanical parts.

Also, the main warranty obligations do not apply to out-of-order external elements of equipment subject to physical contact, and related / consumables, claims for which are accepted no later than two weeks after the sale:

- on and off button:
- · knobs for adjusting welding parameters;
- · connectors for connecting cables and sleeves;
- · control connectors;
- · mains cable and mains cable plug;
- carrying handle, shoulder strap, case, box;
- electrode holder, ground terminal, torch, welding cables and sleeves.

The seller reserves the right to refuse to provide warranty repairs, or to set the month and year of manufacture of the device as the start date for the fulfillment of warranty obligations (established by the serial number):

- if the owner loses the warranty card;
- in the absence of correct or even any kind of filling in the passport by the seller when selling the device.

The warranty period is extended for the period of warranty service of the device in the service center. You can find out information about the nearest service center at the place of purchase.

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PATON MultiPRO DC MMA/TIG/MIG/MAG

FAQs

Q: What is the recommended duty cycle for different processes?

A: The duty cycle varies between 60% to 100% depending on the process and current settings. Refer to the manual for specific values.

Q: How do I adjust the current for different welding processes?

A: Use the current range selector on the machine to adjust the output current based on the welding process,

electrode size, and material thickness.

Q: What are the IP ratings of the machine?

A: The machine has an IP33 rating, indicating protection against solid objects greater than 2.5mm and water spray up to 60 degrees from vertical.

Documents / Resources



PATON MultiPRO Series Multiprocess Welding Inverter [pdf] User Manual MultiPRO-250, MultiPRO-270-400V, MultiPRO-350-400V, MultiPRO Series Multiprocess Welding Inverter, MultiPRO Series, Multiprocess Welding Inverter, Welding Inverter, Inverter

References

• User Manual

Manuals+, Privacy Policy

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