

SANARG 200AP

AC/DC TIG Welding

Tough, Compact & Light Weight.



Excellent Performance! Embedded microprocessor with digital controls, delivering full Constant Current output with perfectly smooth, stable arc characteristics for TIG and Stick electrodes, E6010 Cellulose and low hydrogen electrodes.

Primary Smart Switch! Prevents damage to the internal components if installed to improper voltage. Multi voltage 208-230/460 1 or 3 phase providing maximum flexibility.

Thermal Overload Protection! Indicator alerts the operator if duty cycle is exceeded or airflow is blocked.

Remote 14 pin Receptacle Fitted! Makes compatibility of SanRex, competitive remote devices simple.

Excellent Portability! Lightweight, less than 38 lbs.

IP23S! Suitable for outdoor use.

Digital Meters! Voltage and Amperage: Preview and Hold capability.

Heat sensing fan! Operates as needed to cool components & reduce airborne contaminants pulled through the power source.

Dinse Twist Lock Output Terminals! Allow for easy polarity changing and cable connection.

3 Year Warranty!

Easy to use! Simple, user friendly set-up and operation.

Smart Warning Diagnostics! Alerts operator to power supply abnormalities.

Standards Compliant Integrated VRD! Voltage Reduction Device reduces the OCV when the power supply is not in use. This all but eliminates the risk of electrocution to the operator from the secondary welding circuit.

Job Save & Load! Allows operator to store up to 5 exact optimized welding parameters then digitally recall them with perfect repeatability.

Lift Start TIG! Provides TIG arc starting without use of high frequency.

HF Start TIG! Provides non-contact arc starting that eliminates tungsten or material contamination.

True Square Wave Output! Highly developed balance and cleaning features deliver an unbeatable welding performance with extended tungsten life on aluminum and magnesium alloys without the need for continuous high frequency.

AC Frequency! Give the operator control over weld bead shape.

AC Balance! Allows you to fine tune the AC welding cycle.

Quick Specifications

Processes

STICK (SMAW)
TIG (GTAW) Lift, HF & Pulse

Fabrication, Aerospace, Food/
Beverage, Contractors, Installation/
Repair, Dairy Industry.

Input Voltage

208-230/460 VAC 1/3 Phase

Input Frequency

50/60 Hz

Rated Output @ Duty Cycle

200A/18V @ 20% TIG
160A/26V @ 40% STICK

Output Range

5-200A DC Mode TIG
10-200A AC Mode TIG
5-160A DC Mode STICK
10-160A AC Mode STICK

Weight

37.5 lb (17 kg)

Package Includes

SANARG 200AP

Power Cord
2 ea Dinse 50mm plugs

Order Information

Part No: ID-2000TP-U2E

Description: SANARG 200AP

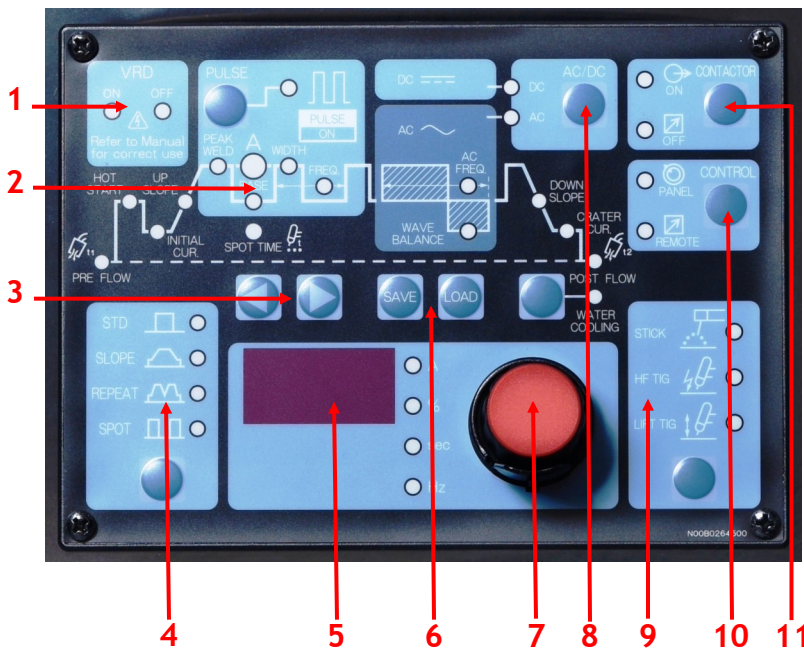
SanRex

Customer Care
Tel: 516-625-1313
Fax: 516-625-8845

SANREX CORPORATION
PORT WASHINGTON, NY, USA

www.sanrexwelding.com
SANPAW 200AP
Form No.:051523200AP

Control Panel



1. VRD - (Voltage Reduction Device) lights indicate on or off.
2. Pulse Function - Pressing this button enables the TIG current pulse functions.
3. Scroll buttons - used to select the parameter to be set. The LED's show which function is being adjusted on the weld sequence graph.
4. TIG Mode Functions - Pressing this button scrolls through the output TIG function modes (Standard, Slope, Slope w/repeat, Spot).
5. Digital LED display - welding amperage and parameter values are displayed in this window. Internal warnings such as over temperature, low or high input voltage applied are signaled to the operator by a warning sound and error message on the screen.
6. Save/Load Buttons - By using the Save & Load buttons the operator can easily save up to 5 welding parameter programs.
7. Control knob - allows the operator to adjust the output amperage within the entire range of the power source, also used to set each parameter value.
8. AC/DC Button - Selects between AC or DC welding output.
9. Process functions - pressing this button scrolls through the output process modes (Stick, Lift & HF Start TIG).
10. Remote current function - pressing this button enables remote current.
11. Remote contactor function - pressing this button enables remote contactor on or off.

Effects of Wave Balance Adjustment on AC/GTAW - Complete Welding Control

The 200AP AC output uses advanced embedded micro processor technology. This control of the wave form changes the amount of time spent on DCEP (cleaning) and DCEN (penetration) parts of each cycle, increasing arc stability. The DCEP cycle insures that the aluminum oxide is thoroughly removed, allowing the DCEN cycle a thorough penetration of the base metal. Both cycles enhance weld quality and significantly improve performance.

When a conventional system changes its wave balance, there can be as much as a 50% increase in amperage draw. Sanrex® 200AP amperage draw is unaffected by any adjustments. The 200AP increases efficiency and eliminates tungsten spitting and enables the use of a smaller diameter tungsten electrodes to operate at a higher current levels. Figures 1 & 2 show the difference in TIG torch electrode and heat and cleaning variations.

Figure 1 - Minimum cleaning/Maximum penetration

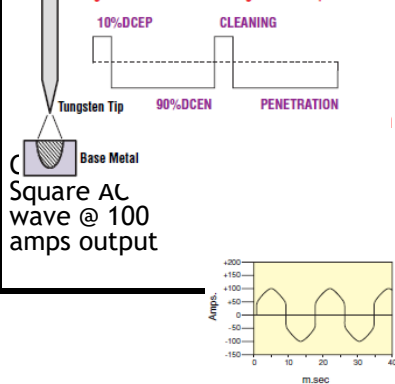
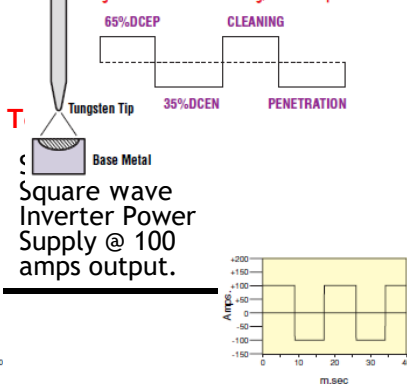


Figure 2 - Maximum cleaning/Minimum penetration



SANARG 200AP

AC/DC TIG Welding

Features



Recessed Control Panel

Simple to use operator interface with protective cover.

14 Pin Remote Receptacle

Easy to connect.

Flow Through Cooling

Heat Sensing Fan.

Output Terminals

Dinse Twist Lock.

Primary Smart Switch

Multi voltage 208-230/460
1 or 3 phase providing
maximum flexibility.

IP23S Design

For Outdoor Use..

Stackable

Small footprint with multi-
ple power supplies.

Heavy Duty Case

ABS High Density Plastic.

Specifications

200AP

Input Voltage
208-230/460V, 3 Phase

Primary Cable Length
10 ft.

Rated Output @ Duty Cycle
200A/18V @ 20% TIG (208-230/460V, 1/3 Ph)
160A/26V @ 40% STICK (208-230/460V, 1/3 Ph)

Output Range
5-200A DC TIG, 10-200A AC TIG
5-160A DC STICK, 10-160A AC TIG

Input Frequency
50/60 Hz

OCV
65

Lift Mode Short Current
25A

Weight
37.5 lb (17 kg)

Approvals
CSA (Pending); IP23S, IEC 60974-1 (CE)

Dimensions (HxWxD)
14.2 x 7.1 x 16.5 in (360 x 180 x 420 mm)

Input Voltage (VAC)

	Duty Cycle	Output Ams	OCV	Output Voltage	No. Phase	208 Input Amps	230 Input Amps	460 Input Amps	kVA	kw
Output TIG	20%	200	65	18	3	17	16	8	6	4.5
Output STICK	40%	160	65	26	3	20	19	10	7.2	5.4
No Load	-	-	-	-	3	1.4	1.3	0.7	0.5	0.3
Output TIG	20%	200	65	18	1	37	33	-	7.5	4.5
Output STICK	40%	160	65	27	1	44	40	-	9.0	5.4
No Load	-	-	-	-	1	2.5	2.2	-	0.5	0.5

SanRex

Customer Care
Tel: 516-625-1313
Fax: 516-625-8845



SANREX CORPORATION
PORT WASHINGTON, NY, USA

www.sanrexwelding.com
SANPAW 200AP
Form No.:051523200AP

Ordering Information

Product	Part Number	Description
SANARG 200AP	ID-2000TP-U2E	Power Supply includes 2 ea Dinse Plugs & 10ft. Primary Cable.

Accessories

Air cooled TIG Kit	200AP-ACTK	Includes 200AP, regulator/flowmeter with 12.5' gas hose, 12.5' 200 Amp Gas cooled TIG torch, accessory kit, 15' work cable, 15' foot control.
Water Cooled TIG Kit	200AP-WTK	Includes 200AP, regulator/flowmeter with 12.5' gas hose, 12.5' 250 Amp Water cooled TIG torch, accessory kit, 15' work cable, Water Cooler w/hose & 4 gal. coolant, 15' foot control & running gear/Cylinder Rack.
 Foot Control	FC1000 - 15ft. FC1001 - 25ft.	Included in TIG Kits. Contactor On/Off, Current control with 25ft. Cable and 14 pin male plug.
 Running Gear	MS1009	Heavy Duty Single/Dual Bottle Universal Welding Cart is designed to carry one bottle of gas up to 10 inches in diameter and up to 300 cu. Ft.; or two separate bottles of gas up to 7-1/2 inches in diameter or 150 cu. Ft each. The bottom shelf has an 18 inch clearance. Included in 200AP-WTK TIG Kit.

Note: The 200AP is compatible with CK Worldwide 14 Pin Remote Amperage Controls or equivalent.