

# SANMIG 400MP

## DC Multi-Process Welding

### Tough, Compact and Light Weight



**Excellent Performance:** Embedded microprocessor with digital controls, delivering full multi process CC/CV, CV Pulse with perfectly smooth, stable arc characteristics for MIG solid and Flux cored wires, Air Carbon Arc cutting and Gouging, E6010 Cellulose and low hydrogen electrodes.

**MIG Pulse:** Preset Pulse programs for Mild Steel, Stainless Steel, Aluminum and Silicon Bronze.

**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 14pin Receptacle Fitted:** Makes compatibility of SanRex, competitive wire feeders and remote devices simple.

**Excellent Portability:** Lightweight, less than 65 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.

**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.

**Hot Start:** Adjustable Hot Start for optimized starting performance.

**Arc Control:** Adjustable Arc control for optimized welding performance.

**Inductance Control:** Fine tuning control for optimized MIG welding performance.

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

**Simple Automation:** Includes Remote Weld ON/OFF, Amperage control, Weld output ON (OK-to-Move).

#### Quick Specifications

##### Processes

STICK (SMAW)  
TIG (GTAW) Lift  
MIG (GMAW), Flux Cored (FCAW)  
Pulse MIG (GMAW-P)  
Air Carbon Arc Cutting/Gouging (CAG)

Industrial Manufacturing, Contractors,  
Installation/Repair.

##### Input Voltage

208-230/460 VAC 1/3 Phase

##### Input Frequency

50/60 Hz

##### Rated Output @ Duty Cycle

400A/36V @ 25%  
300A/32V @ 60%

##### Output Range

5-400A DC

##### Weight

55.6 lb (25.22 kg)

##### Package Includes

SANMIG 400MP  
Power Cord  
2 ea Dinse 50mm plugs

##### Order Information

Part No: ID-4000CP-U1E  
Description: SANMIG 400MP

# 3 Year Warranty

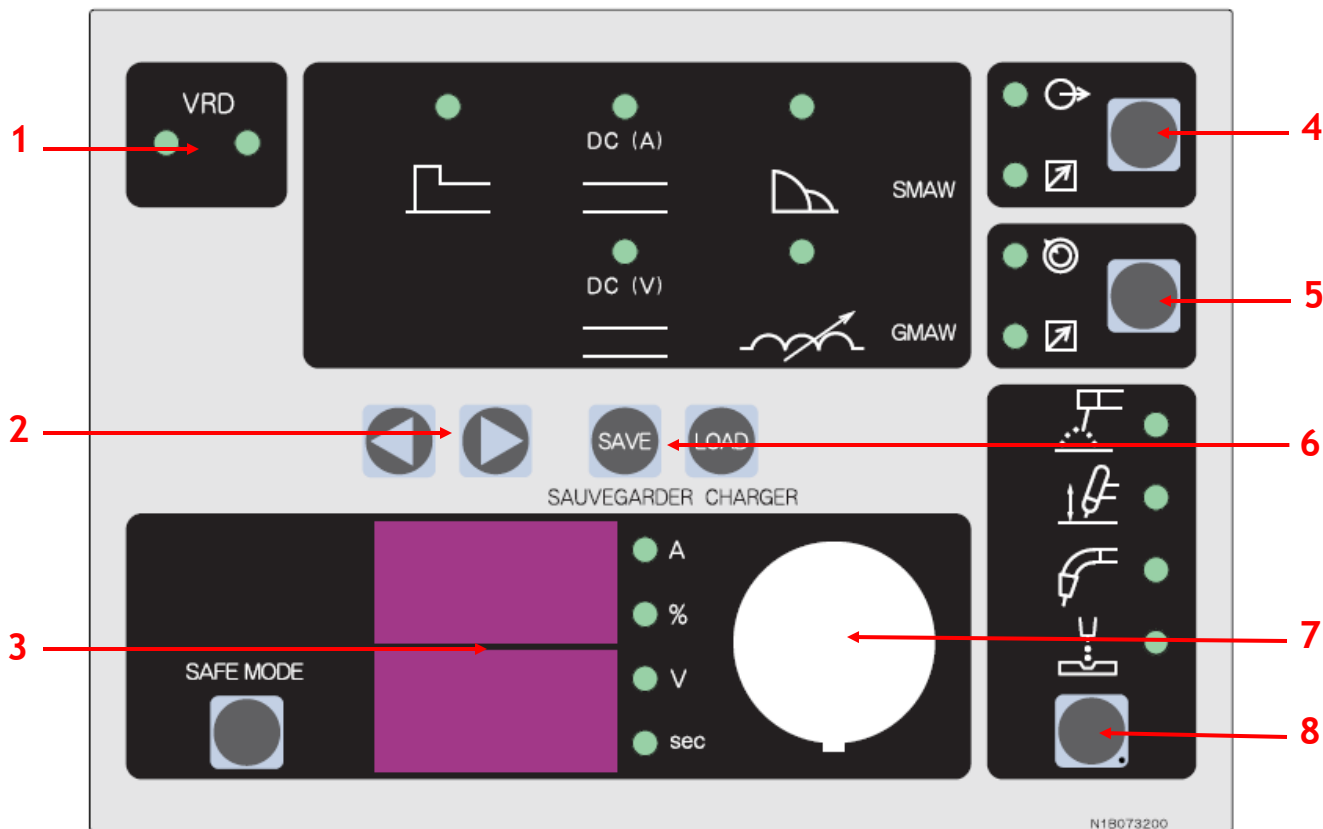
**SanRex**

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

SANREX CORPORATION  
PORT WASHINGTON, NY, USA

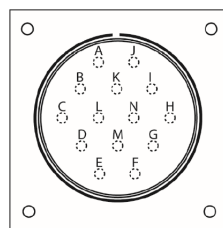
www.sanrex.com  
SANARG 400MP  
Form No.:031521400MP

## Control Panel

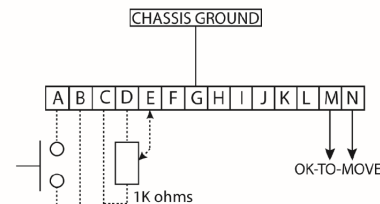


1. VRD - (Voltage Reduction Device) lights indicate on or off.
2. Scroll buttons - used to select the parameter to be set. The LED's show which function is being adjusted on the weld sequence graph.
3. Digital LED display - welding amperage and parameter values are displayed in this window. Internal 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.
4. Remote contactor function - pressing this button enables remote contactor on or off.
5. Remote current function - pressing this button enables remote current.
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. Process functions - pressing this button scrolls through the output process modes (Stick, Lift TIG, MIG).

**Simple Automation** Interface for Fixed, hard and Robotic automation applications includes Remote Weld ON/OFF, Remote Amperage Control, OK-to-Move Weld Arc ON signals.



Front view of 14-Pin Socket Receptacle



# SANMIG 400MP

## DC Multi-Process Welding

### Features

#### Recessed Control Panel

Simple to use operator interface with protective cover.

#### 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.

#### Heavy Duty Case

ABS High Density Plastic.

#### 14 Pin Remote Receptacle

Easy to connect.

### Specifications

#### 400MP

<b>Input Voltage</b> 208-230/460V, 1/3 Phase	<b>Primary Cable Length</b> 10 ft.
<b>Rated Output @ Duty Cycle</b> 400A/36V @ 25% 300A/32V @ 60%	<b>Output Range</b> 5-400A
<b>Input Frequency</b> 50/60 Hz	<b>OCV</b> 65
<b>Lift Mode Short Current</b> 25A	<b>Weight</b> 55.6 lb (25.22 kg)
<b>Approvals</b> CSA (Pending); IP23S, IEC 60974-1 (CE)	<b>Dimensions (HxWxD)</b> 16.5 x 8.3 x 17.7 in (420 x 210 x 450 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	25%	400	65	36	3	67	60	30	34	18
Output	60%	300	65	32	3	44	40	20	16	12
No Load	-	-	-	-	3	1.4	1.1	0.7	0.5	0.13
Output	25%	300	65	32	1	96	87	-	20	12
Output	60%	230	65	29	1	67	60	-	13.9	8.3
No Load	-	-	-	-	1	2.5	1.8	-	0.5	0.13

## Ordering Information

Product	Part Number	Description
SANMIG 400M	ID-4000C-U1E	Power Supply includes 2 ea Dinse Plugs & 10ft. Primary Cable.

### Accessories

Note: Kits do not include Power Supply.

MIG Kit w/Sky 4	400M-MK1	Includes SKY4 Wire Feeder, 4' Coax, 12' 250A MIG Gun & 10 tips, 13' Work Lead, Regulator Flowmeter & running gear/Cylinder Rack. (When ordering specify 0.035 or 0.045 wire)
MIG Kit w/Sky 4	400M-MK2	Includes SKY4 Wire Feeder, 4' Coax, 12' 350A MIG Gun & 10 tips, 13' Work Lead, Regulator Flowmeter & running gear/Cylinder Rack. (When ordering specify 0.035 or 0.045 wire)
MIG Kit w/Sky 4HD	400M-HDMK1	Includes SKY 4HD Wire Feeder, 4' Coax, 12' 250A MIG Gun & 10 tips, 13' Work Lead, Regulator Flowmeter & running gear/Cylinder Rack. (When ordering specify 0.035 or 0.045 wire)
MIG Kit w/Sky 4HD	400M-HDMK2	Includes SKY 4HD Wire Feeder, 4' Coax, 12' 350A MIG Gun & 10 tips, 13' Work Lead, Regulator Flowmeter & running gear/Cylinder Rack. (When ordering specify 0.035 or 0.045 wire)
MIG Kit w/Sky 4HD	400MP-HDMK1	Includes SKY4 HD Wire Feeder, 4' Coax, 12' 450A MIG Gun & 10 tips, 13' Work Lead, Regulator Flowmeter & running gear/Cylinder Rack. (When ordering specify 0.035 or 0.045 wire)
	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.

## Wire Feeder Options

### SANFEED SKY 4

- EURO Gun connection
- Large 4 Roll System.
- Digital Volt and Amperage Meters
- Interconnection Coaxial cable
- 0.023" – 5/64" Solid and Flux-cored wires.

### SANFEED SKY 4HD

- TWECO Gun connection
- Large 4 driven Drive Roll System
- Digital Volt and Amperage Meters
- Interconnection Coaxial cable
- 0.023" – 5/64" Solid and Flux-cored wires.



SANFEED SKY 4 & 4HD



Coaxial Cable

Includes Gas Hose, Power and control cables

