AWS-200/400

Computer Controlled TIG/PLASMA Welding System "Fully Intergrated" for Automatic Welding





The AWS-200/400 Advanced Welding System is a micro processor based system designed and built to provide a high quality, economically priced, very accurate and repeatable total welding system. This totally integrated system combines either a 200/400 Ampere precision D.C. power supply, travel rate servo, arc distance control and wire feed servo all in one rugged modular enclosure.

The AWS-200/400 is a highly refined field proven product. Its software base and hardware are the end result of 20+ years of designing and manufacturing precision automatic computer controlled G.T. A. welding systems.

- Close Loop Servo Control of Weld Current, Travel Speed, Arc Distance Control & Wire Feed.
- Internal memory holds up to 60 multi-level function weld schedules, key switch protected.
- Synchronized current, voltage, travel and wire if desired.
- Torch and back up gas flow meters with gas fault sensors.
- Programmable operators overrides 0-100%.
- Minimal operator skill required

- Manually selected or automated multi pass capability.
- Detects and indicated faults, i.e., gas flow, temperature, voltage, etc.
- Very operator friendly remote control & weld program selector.
- Programmable high frequency protected optically isolated I/0 8 inputs & 8 outputs.
- Remote Pendant has expansion for 11 additional special feature buttons.

THE ULTIMATE PRODUCTION SYSTEM SELECT YOUR OPTIONS

NBC-200-400 Notebook Computer



Weldlogic C.W.F. option is a closed loop tachometer feedback for high accuracy feed rates of 0.1 to 100.0 inches per minute. A 4 drive roll mechanism provides positive production worthy feeder for wire Dia. .010 to .093. The 3 Axis manipulator places the wire in the optimum position in the weld

puddle and stays in the position you've selected.



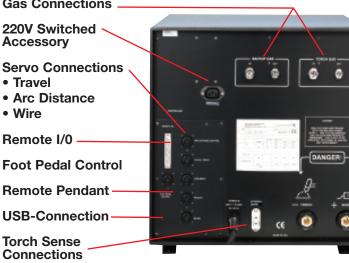
This smart looking front panel eliminates all the switches and knobs of yesteryear! The notebook can be stored in the locked storage drawer or may be used as a desktop system.



T.R.S. TRAVEL RATE SERVO

Weldlogic T.R.S. option is a closed loop tachometer feedback 28 volt D.C. Precision Drive. The Servo will provide up to 6 amps of drive current. A wide range of D.C. motors are available to accommodate vour specific rotary or linear requirements. Our T.R.S.has 1/0 for limit switches and a return to home sensor.

Gas Connections



A.D.C.-3"/6" ARC DISTANCE CONTROL

Weldlogic A.D.C. option is a dual function automatic torch positioner. The A.D.C. can be programmed to provide a fixed tungsten to work distance in .001 increments and also provides continuous arc distance control during the duration of the Weld. The A.D.C. is available in a 3.0" & 6.0" stroke.



R.P.W. REMOTE PENDANT

This lightweight remote operators pendant provides Overrides, jogs, start, stop, purge, weld/set-up. The keylocked weld schedule allows the operator to access any of the 60 internal weld schedules resident in the welder. The function key allows the operator to select which servo feedback to display

AWS REAR PANEL

The rear panel provides easy access to all interconnects. Clean cable runs and none of the external servo boxes we're so use to seeing in this industry.



A POWERFUL DEVELOPMENT TOOL

THE NOTEBOOK ADVANTAGE

The Notebook computer is only used to develop, edit and download the Weld schedule into the on board protected memory in the AWS-System. The menu driven software and F1 help screens assist the welding engineer to easily create and optimize simple or complex weld schedules for the production system. The operator need only select the assigned program number on the operator pendant to enable the total weld program execution.

- · Easy menu driven software prompts you in plain English and other languages.
- · See the entire program on one screen No single line displays to scroll through.
- · Print, review & edit your weld schedules at your desk.
- · Password protection of your weld schedules
- · Create your own pre weld screens and Customized software.
- · Use the notebook for other industrial or business applications.

Mode switches are easily togged on/off with space bar



AWS-200/400 TYPICAL APPLICATIONS



Interactive main weld screen feed back meter & target parameters



- -

Program up to 9 levels per weld schedule plus level sloping

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Pop Up Menus provide easy access to system features

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Set up menu provides direct access to parameter groups



SPECIFICATIONS SUBJECT TO CHANGE

AWS-200-400 WELDER

FRONT PANEL

- Power on/off switch (Circuit Breaker)
- · Adjustable flow meters for torch and backup with gas fault sensor
- · Locked storage drawer for note book

REAR PANEL

- Twist Lock Connectors (ADC, Travel, Wire, Pendant, USB, Foot Pedal)
- DB-37 Remote I/0
- Dinse-Torch, Work
- · Quick Disconnect Gas In and Out, Torch and Backup Gases
- Power Cable 220V AC, 25 Amps., 8 feet long

WELD SCHEDULE CAPACITY

Internal memory storage for 60 different Weld Schedules, each with up to 9 levels. Note book unlimited.

PRIMARY INPUT POWER

- Input Voltage: 220-240 VAC
- 25 Amperes @ 220VAC • Line Current:
- 50/60 Hz, Single Phase Frequency:

SECONDARY OUTPUT POWER 1 to 200/400 Amperes

- Welding Range:
- Peak Pulse Current: 200-400 Amperes
- Duty Cycle: 90%
- 16 Volts @190/380 Amps • Voltage:

ARC STARTER

• H.V. Impulse or D.C arc start options.

MOTOR DRIVES

- Rotary/Linear Servo 28 volts D.C. 5. Amperes current
- Computer Interactive Arc Distance Control.
- · Wire feed servo with tachometer feedback

COMMUNICATIONS

- USB port for notebook
- Optional 1/0 interface
- Remote Operator Pendant

PHYSICAL DATA • Dimensions-

AWS 200 L-22", W-20", H-18" AWS 400 L-22", W-20", H-28"

- Shipping Weight- AWS 200 140 lbs. AWS 400 190 lbs
- Net Weight 91 lbs. (200 kg.)

OPERATING ENVIRONMENT

| Ambient Temperature: | 40 to 110 F (4.4 to 43 C) |
|--|---------------------------|
| Relative Humidity: | 10% to 90% |

UTILITIES

• Inert Gas Control:

5 to 50 SCFH @ 40 to 60 PSI Adjustable flow meters

REMOTE OPERATOR PENDANT

| Operation Modes: | WELD/SETUP |
|--|---|
| Welding Function: | Sequence START/STOP DOWNSLOPE Manual PURGE |
| Travel Functions: | Return to HOME |
| | Jog Fwd, Jog Rev. Travel On/Off |
| Display Functions: | (FUNC) Selects which Parameter is displayed |
| | in 3 digit led meter |
| | |

MANUFACTURERS OF:

0.1-900 ampere TIG/Plasma power supplies, orbital tube welders, computer controllers, multi axis, seamers, arc distance controls, oscillators, wire feeders, turn key systems.

Distributed by:

AWS-200/400 PROGRAMMABLE PARAMETERS

(OFF/ON)

(OFF/ON)

(OFF/ON)

(OFF/ON)

(OFF/ON)

(OFF/ON)

0 to 1000 Secs.

0 to 1000 Secs.

0 to 9999 Secs.

0 to 9999 Secs.

1 to 50 Amps

0 to 100.0 Secs.

0 to 100.0 Secs.

0 to 100.0 Secs.

0 to 100.0 Secs.

0 to 100%

0 to 100%

(ON/OFF)

0 to 100.0 Secs

0 to Full Range*

0 to 999.9 Secs.

0 to Full Range*

(FWD/REV) (CW/CCW)

0 to 1.0 Volts

001 to .250 Inch (.0254mm to 6.35mm)

0 to 3.0/6.0 Inches (76.2mm/152mm)

1 to 50 Amps.

(MAN/TIME)

SYSTEM MODES

- Pulse Mode
- Sequence Mode
- Auto Sequence Mode:
- Stubout Mode
- Return To Home Start From Home
- Plasma mode

GAS PARAMETERS

- Torch Prepurge Time • Torch Prepurge Time
- Backup Prepurge Time
- Backup Prepurge Time

CURRENT PARAMETERS

- Start Current
- Upslope Time
- Level Slope time
- Downslope Time
- Finish Current • Current Override Limit

0 to 100% ARC DISTANCE CONTROL PARAMETERS

- Start Gap
- ADC Unlock Delay Time
- ADC Retract Distance
- ADC Sensitivity
- ADC Deadband
- ADC Override Limit

TRAVEL PARAMETERS

- Step Mode
- Travel Start Delay Time
- Weld Direction • Travel Jog Speed
- Travel Advance Time
- Travel Advance Speed
- Travel Speed Overide Limit
 - 0 to 100% *Full Range Depends on Motor and Mechanism

WIRE PARAMETERS

- Wire Start Delay
- Wire Jog Speed
- Wire Retract Distance • Wire Override Limit

LEVEL PARAMETERS

- Peak Current
- Background Current
- ADC (Off/Cont/Peak)
- Peak voltage
- · Background voltage
- Pulse Rate
- Pulse Width
- Wire Mode
- · Peak Wire Speed Background Wire Speed
- Level Time

0 to 100.0 Secs 0 to 100.0 IPM (42.3mm.s) 0 to 1.0 Inch (0 to 25.4mm) 0 to 100%

1 to 200/400 Amps 1 to 200/400 Amps (Off/Peak/Cont) 7.0 to 25.0 Volts 7.0 to 25.0 Volts 0.1 to 100 P.P.S. 0.1 to 99.9% OFF/ON 0 to 100.0 IPM (42.3mm/s) 0 to 100.0 IPM (42.3mm/s) 0.1 to 999.9 *Alternate RPM and linear speed options available

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