

AWS-210/400/800

FORMING & WELDING SOLUTIONS

Programmable DC and AC/DC TIG and PLASMA Welding Systems

The AWS-210-400-800 Advanced Welding Systems are microprocessor-based programmable power supplies designed and built to provide a highest quality, accurate and repeatable welds. These systems are available in 210, 400 or 800 ampere configurations in either DC or AC/DC configurations for welding aluminum alloys. The system also controls positioner Travel Motion, Torch Arc Distance Control and Wire Feed servos providing a totally integrated system. The AWS-system is a highly refined, field-proven product used throughout the world for critical welding -210applications. The controls and hardware are the end result of 40+ years of designing and manufacturing precision automated computer **AWS 400 AWS 800 AWS 210** controlled welding systems. **Remote Operator Pendant** 0 Full function HMI touchscreen pendant puts all system controls at the operator's fingertips.

- Close Loop Servo Control of Weld Current, Travel Speed, Arc Distance Control & Wire Feed.
- External memory, via flash drive, stores unlimited multi-level weld schedules.
- Synchronized Current, Voltage, Travel and Wire Feed.
- Torch and back up gas flow meters with gas fault sensors.
- Password protected Operator/Engineering modes.
- Programmable operators overrides 0-100%. Minimal operator skill required.
- Detects and indicated faults, i.e., Gas Flow, Voltage, Current and Travel Limits.
- Operator friendly remote control & weld program selector. Isolated I/0 inputs & outputs, Standard I/0 outputs to PLC and additional devices, ie.
- Data Aquisition, Safety Switches, Auto Feeder, etc. up to 4 channels.

Weldlogic USA Engineering & Mfg.

2651 Lavery Court, Newbury ParkCA 91320, USA Tel. (805) 498-4004 | Fax. (805) 498-1761

Weldlogic Europe

Blackstone Road, Huntingdon Cambridgeshire, PE29 6EF, UK Tel. 01480 437478 | Fax. 01480 437479



THE ULTIMATE PRODUCTION SYSTEM

Select Your Options

R.P.W. REMOTE PENDANT

This remote operators pendant provides Overrides, jogs, start, stop, purge, and weld/set-up. The pendant allows the operator to access any of the weld schedules resident in the welder. Additionally displays real time feed back of weld time, voltage, current and wire.



A.D.C. - ARC DISTANCE CONTROL WITH 3" OR 6" RAMS

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. ram is available in a 3" & 6" stroke.



TRAVEL RATE POSITION-BASED SERVO

Weldlogic's position-based drive feature is a closed loop A.C. precision servo for highly accurate positional control. A wide range of A.C. motors are available to accommodate your specific rotary or linear requirements. Our T.R.S. has I/0 for limit switches and a return to home sensor. Custom motors available upon request.



C.W.F. COLD WIRE FEED

Weldlogic C.W.F. option is a closed loop A.C. precision servo drive 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 diameter .020 to .093. The torch mounted 3-axis manipulator places the wire in the optimum position in the weld puddle. Programable wire feed advance/ retract allows for dabber type wire feeding.



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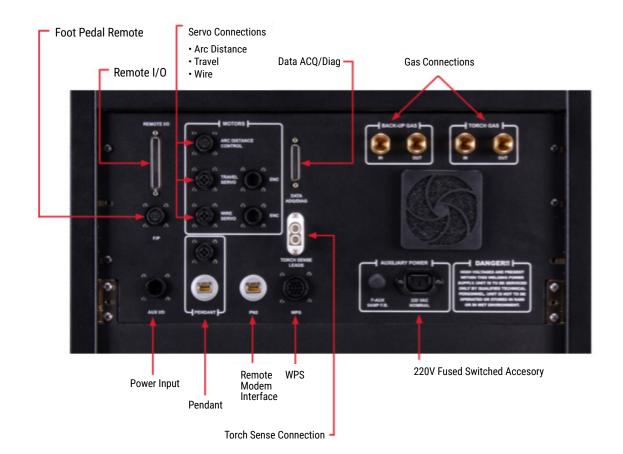
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AWS REAR PANEL

The rear panel provides easy access to all interconnects.

Clean cable runs and none of the external servo boxes we're so used to seeing in this industry.



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WELDING SOLUTIONS FOR ADVANCED MANUFACTURING

A POWERFUL DEVELOPMENT TOOL

EASY TRANSFER OF WELD DATA

Program CSV file transfer via thumbdrive for offline storage and edting to PC computer.

- Easy menu driven software prompts you in plain English, SAE and Metric
- 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



SETUP SCREENS

Files Gas	Ourrent	ADC/B	74 Trave	s Win	Levels	Files Gas	Current ADC/EG	A Travel	The L	evels	Files Gas	Current A	DC/EGA Constant W	ire Lovels	Files Gas	Current ADC/EG	Travel	in Level
Axis Pos 32.65 % Current [Amps] Bg Current [Amps] ADC Mode [Pk/Off] ADC Posk Volts Puble Free [PPS] Pk Puble Width [%] Wield Spd [M/Min] Wire Mode [On/Off]	200.00 75.00 0N 12.0 12.5 35.00	Level2/On	Level3/00 156.95 59.00 OFF 11.2 12.5 35.00	Level (, D) 147,20 52,00 OF 10,7 12,5 35,00	135.00 40.00 Of 10.1 12.5	Wire Start Delay Wire Retract Distance Wire Jog Speed	+0.2 seconds 25.00 mm 2.540 M/Min	Public Freq (P) Pk Public Wolfts (* Pk Wee Spil (Pil) Sig Wee Spil (Pil) Sig Wee Spil (Pil)	NI 35.00		PPS- Step Mode [OryOff] PLS - Start Delay Time PLS - Jog Speed [M/Min]	+0.1	PLS Auto Position [mm] Start Point Distance [mm] Start Point Speed [MMm] Jug Forward		Torch Pre-Purge Time Torch Post-Purge Time Backup Pre-Purge Time Backup Post-Purge Tim Manual Purge Status	+2.0 Secs +3.0 Secs +2.0 Secs	GAS Sensor Status CAS_Enution Trach Rachap	
% Wire Spd [M/M] 8g Wire Spd [M/M] Level End Pos [mm]	+0.960 +0.590	+0.986 +0.550	+0.921 +0.521	+0.853 +0.452	+0.789 +0.419 SWA		Reverse	brand		SWA MK II Madit	Tar HOME			SWA MK II Modit				SWA MK II
Files Gas Upslope Time Downslope Time	+0	0 Secs	GA Traw	el Wir		Travel Position [mm] 32.65 Current -26.5	1	Seam Weld	Counter: +H		Files Gas Start Gap ADC Unlock Delay Time ADC Retract Distance		ands		Current Feed back Sca Voltage Feed back Sca	e 📽 +103	Page Course WPS (Weiding Por PHTI Mandar 250 Garrent	
Start Current		0 Amps				Voltage -2.7 Travel Spd (M/M 0.05 Wire Sod (M/M)	Unit Sutur	_	ADC Over-side + Travel Force Jog	482	ADC Speed ADC Override Limit	+1.270 mm 3.000 mm +5 perc	/sec	06 20	Peak Current Scale % Backgr Current Scale 9 PID In-accuracy % PWL / UPS Select	+54.90 +54.90 +3 X us seen	-26.4 Same Postor (mot) (34.00 Land	-2.7
					SwA MK II	2.54 Admin Eng	neer Editor	Home S SWA MIC, S/W Ver: 4.	w Not Enabled	Back		Reset	ADC Gap Test	n SWA	Home Sensor Enable UPS EOTs N.O. / N.C. Wire Feeder Installed	EUTs N.O.	agrostic Mode 🗙	

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AWS-210-400-800 TYPICAL APPLICATIONS



CIRCUMFERENTIAL WELDING



CUSTOM WELD SYSTEMS



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