PA-10 100-STD

Micro Arc

The Most Accurate Low-Current Welding System on the market today

The precision weld fabrication of delicate heat sensitive assemblies is now a practical reality. Finally, there is an alternative to complicated and costly beam welding systems. Very low heat, high-speed welds can now be made in materials as thin 0.001” and as thick as 0.125” with the Weldlogic PA-10/100-STD, which meets and exceeds the throughput and repeatability demands of high volume TIG and Plasma manufacturing requirements. Now CE marked to comply with the highest safety and RF emissions standards.

This unique state-of-the-art dual range, 10 amp/100 amp, precision pulsed current arc welding system is the result of years of research and development in low current arc starting and control stability.

Weldlogic’s exclusive Direct Current (DC) arc initiation prevents start pulse overmelts in the most delicate of welds, and extends tungsten life. Closed loop servo control of welding current and direct reading digital controls make the PA-10/100-STD the most accurate low current welding system on the market today. Millisecond square wave arc current pulsation produces a narrow, more efficient arc for high consistency of low heat welds.

Weldlogic, Inc. maintains a staff of experts in the specialty of precision welding and automation for a wide variety of manufacturing industries.

Features:

- 110V, or 220V - 50/60 Hz, Single Phase Operation
- Ultra-low current system can soft- start and weld at 0.1ampere
- DC Arc Starting extends tungsten life
- Dual range from 0.1 ampere to 100 amperes (60 percent duty cycle max)
- Welds material thicknesses from 0.00075” to 0.125”
- Closed-loop servo current control design
- No arc wander, even with current as low as 0.1amp
- Trans-Portable
- Panel switchable TIG/Plasma modes
- CE Marked
- Many standard and custom options available

Specifications:

OUTPUT

Current (DCEN)	0.1 to 10.00 amperes 1.0 to 100.00 amperes
Accuracy:	±0.5% of value
Open circuit volts:	120 vdc nominal
Pulsing Freq.:	0 to 100 pps
Pulsing Width:	0 to 100 percent

INPUT

Voltage:	105, 115, 210, 230 VAC
Current:	12 Amax 115V.
Frequency:	50 or 60 Hz
Phase:	1
Power:	1,200 watts maximum

ARC START

Type	Exclusive DC Arc Start
Minimum start:	0.1 amperes
Gas:	Argon, hydrogen, helium or any mixture

Control Specifications:

TIMING

Prepurge:	0-10 seconds
Upslope:	0-10 seconds
Weld:	0.1 to 99.9 seconds
Downslope:	0-10 seconds
Postpurge:	0-10 seconds
Fixture delay:	0-10 seconds

WELD CURRENT CONTROLS

Weld current (high range)	1.0 to 100.0 amperes
Weld current (low range)	0.1 to 10.00 amperes
Background current (high range)	1.0 to 100.0 amperes
Background current (low range)	0.1 to 10.00 amperes

FUNCTION SWITCHES

Weld timer:	On/Off
Gas flow:	Auto/Manual
Pulse mode:	On/Off
Weld current:	High/Low
Mode	Set-up/weld
TIG/PLASMA	Key Switch

PANEL CONTROLS

Start:	Starts auto sequence
Stop (short):	Slopes current out
Stop (long):	Stops arc immediately

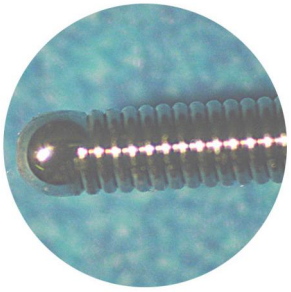
REMOTE CONTROLS

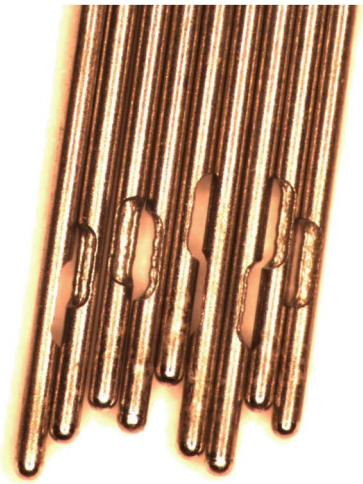
Start:	Starts auto sequence
Stop (short)	Slopes current out
Stop (long)	Stops arc immediately
Foot pedal:	Remote start/stop and or current adjust

INDICATORS

Power:	AC power on
Weld time:	Red L.E.D.
Start sequence:	Green lamp
Stop/downslope:	Red lamp
Arc voltage:	0-50 volts
Amperes:	0.1 to 100 amperes
Gas flow meter:	0 to 50 CFH (Argon)

NOTE: Specifications subject to change without notice.





SPECIFICATIONS

	Micro-Tig
• Main Arc Current:	0.1 to 100 A, 60%
• Power Input:	110 V / 230 50/60hz
• Arc Voltage:	10 V - 25 V (Nominal)
• Open Circuit Voltage:	110 V
• Pilot Arc Voltage:	N.A.
• Pilot Arc Current:	N.A.
• Pulse Rate:	0.1 - 100 P.P.S.
• Upslope / Downslope	0.1 - 10 Seconds
• Weld Time	0.1 - 99.9 Seconds
• Dimensions	16” W x 14” H x 24” D
• Weight (dry)	105 lbs (47 kg)

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