SOLUTION #9480 3Ø DC SECONDARY CONTROL SPECIFICATIONS

STD. FUNCTION	OPERATION	RANGE	APPLICATION	
WELDING MODES	SPOT, SEAM, ROLL-SPOT	-	Operates selected welding mode	
COUNTER	Counts welds or finished parts	0 - 65,500	Production control	
KEYBOARD KEYLOCK	Prevents program changes	-	Eliminates unauthorized changes	
RETRACT	Operates RETRACT solenoid	-	Sets large or small electrode opening	
DUAL HEAT	Two independent weld schedules from the 75 in memory	-	Welding two thickness combinations in one handling	
SQUEEZE TIME	Dwell before firing	0-99 cycles	Fire after electrodes are closed	
WELD	Main weld heat	0-99 cycles 0-99% heat	Main heat for all welding programs	
HOLD TIME	Dwell after welding	0-99 cycles	Allows nugget to cool	
SCHEDULE MEMORY	Instant recall of complete welding schedules	75 complete schedules	Instant setup for welding of common metal combinations	
IMPULSATION	Repeats WELD portion of sequence	0-99 pulses 0-99 cool cy	Drive a weld deeper into the each part, used on thicker metal welding	
PREHEAT	Heat sequence before weld	0-99 cycles 0-99% heat	Controls heat when welding heavy parts	
UPSLOPE	Ramps heat from selected starting point to WELD heat	0-99 cycles 0-99% initial	Helps with poor fit-up of parts and one method for galvanized steel welding.	
DOWNSLOPE	Ramps head from WELD heat percent to selected end heat	0-99 cycles 0-99% final	Controlled heat ramp for heavy material welding and controlled cool ramp	
POSTHEAT	Heat sequence after weld	0-99 cycles 0-99% heat	Control heat cracking; Smooth transition between impulses	
QUENCH & TEMPER	Cool and reheat at end of welding sequence	0-99 cycles 0-99% heat	Reduces brittleness in high carbon steels	
REPEAT	Automatic opening & closing of tips while initiation is closed	0-99 cycles	Allows "automatic" operation of welder on long rows of repetitive welds	
WATER SAVER DRIVER	Operates water saver solenoid	1 minute	Turns water off 1 minute after last weld	
TIP FORCE	Calculate needed pressure	0-9,999 lb	Fast setups for WELD and FORGE	
PRECOMPRESSION,	Timed high pressure before first	0-99 cycles ON	Lowers surface resistance at start of weld	
POSTCOMPRESSION	heat	0-99 cy delay	for consistency	
FORGE DELAY	Timed delay of high pressure	0-99 cycles	Reduces nugget internal cracking	

OPTIONAL FUNCTIONS

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OPTIONAL FUNCTION	NUMBER	OPERATION	RANGE	APPLICATION	
DIFFERENTIAL PRESSURE TRANSDUCER	9381-05	Starts weld when program- selected TIP FORCE is reached		Precision TIP FORCE at beginning of each weld. Verification at end of weld	
24VDC OUTPUT	9381-30	SUPPLY 24VDC FOR VALVES	_	Drives 24VDC solenoid valves on welder	
ELECTRONICALLY-SET PRESSURE REGULATOR		Keypad set of WELD and FORGE forces from program lines	11-99 NSI	Eliminates manual pressure regulator setting	
WELD CURRENT MONITOR	U121 772	Warns each weld if current is out of range. Locks electrodes closed	U-250 000A	Quality control of every weld	
PRINTER / COM. PORT	9181-21A 9181-21/4	Serial port for data export		Data logging of welding current and tip force	

INITIATION MODES

- Single or Two-level foot switch operation, single or dual schedule select.
 Dual hand switch anti-tiedown, single or dual schedule select.

ELECTRICAL SPECIFICATIONS

208 - 575V, 3Ø, 60/50Hz