

# WC-1

## Process Controller



### Add-On Weld Process Controller

The Thermal Arc **WC-1**, Controller allows a compact packaged micro-processor system to be added onto a Thermal Arc **Ultima-150™** or **WC-100B** Component plasma welding package to provide accurate, and repeatable parameter control over the entire welding system. The Controller provides a full-featured current Pulser to aid in controlling warpage, penetration and the weld puddle. The Sloper function is designed to permit the development of a complete sequence of operation for a specific welding job. Two programmable outputs are featured, one is used to control the Plasma power source and the second, controls a Cold Wire Feed Motor Drive Control. The Controller provides 32 user selectable weld schedules.

### WC-1 Add-On Microprocess Controller

#### Features:

- 32 Weld Schedules
- Program/Run key lock switch
- 8 status LED's
- 9 Optically isolated inputs
- 5 solid-state isolated relay outputs
- Easy Three button programming
- Large LCD back light Display View screen
- RS232 Port for Computer programming interface
- Controlled Weld Pulse Rate up to 500 Pulses/Sec



- Plasma Welding
- Plasma Brazing
- Plasma Overlaying

**WC-1 Weld Processor Controller for Ultima-150 or WC100B packages**

## Specifications Information:

### WC-1 Microprocessor

**Power Requirements:** 115/240 vac 50/ 60Hz @ 0.2kw

**Operating Temp:** 10 Degrees F to +140 Degrees F  
(-23C to +60C)

**Dimensions:**

**Height:** 5" (102mm)

**Width:** 9" (165mm)

**Depth:** 11"(280mm)

**Relay Outputs:** 115 VAC/VDC 1 amps normally open contact

**Switch Inputs:** 5 — 24 vdc @ 1.0 — 8.0 ma

**Analog Outputs:** 10vdc precision reference output. 10bit resolution (10mv resolution) Maximum output current 10ma. Output is short circuit protected.

**Encoder Input:** Pulse accumulator input 5.0vdc TTL level with 4.7K pull-up. Maximum input frequency 15khz.



## Ordering Information:

	Part No.		Part No.
WC-1 Process Controller	600279	<b>Cable Assemblies</b>	
		WC-1 to Ultima® 150 or WC100B (required)	9-4129

### Accessories

25" Remote Hand Pendant 600280

### WF-100 Cold Wire Feed

For Cold Wire Feed ordering details see the WF-100 catalog pages.



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