

typical applications

projection welders



manual stations



robot stations



seam welders





Value-priced features and flexibility

The WS700 has been designed as an easy to use welding control timer intended for the customer who requires monitoring and quality welds. This timer has spot/pulsation/seam and roll-spot sequences with selectable phase angle or constant current control. A simple to use 4-line LCD and keypad allows up to 64 programs of weld settings to be entered. The timer can be supplied in a combination cabinet with circuit breaker and SCR to suit all machine kVA sizes.

features	benefits
easy to use	ready to go
phase angle/constant current	quality welds
integral programmer	always available
250 statement sequencer	reduce additional hardware
64 user-defined programs with program linking	store settings for different material and thicknesses
retract control	suitable for most types of gun operation
counter function	can be used for electrode maintenance
weld current/pressure monitoring	quality welds
proportional valve control	control the welding force
50 or 60 Hz operation	international
printer output	record weld quality

options

WS98-700 PC software for programming and monitoring #03-20-03-29 ELR/1 earth-leakage relay • 2-hand start unit 16 position remote program select unit #90-80-28 3PA/2 3-phase adapter

configurations

WS700, cabinet and SCR combinations are shown in document 91-10-00-00-16

WS700 welding control

width

data sheet

program parameters x 64

presqueeze	099 cycles
squeeze	099 cycles
weld1 & 2, cool1 & 2, upslope/downslope	099 cycles
pulses	09
hold	099 cycles
off	099 cycles
pressure	010 V
heat1 and heat 2	099 %
current1 and current 2	060 kA

environmental temperature - operating +32° to +122°F - storage -13° to +158°F humidity - operating up to 80% (relative) - storage 10% to 90% dimensions height 11.5"

6.75"

i/o control

4 events per program synchronised to the weld sequence

full-feature 250 statement logic sequencer

16 programmable inputs

8 programmable outputs

monitoring parameters x 64

current monitor	on/off
weld1 and 2 high/pre/low limit	099 %
pre-limit count	099
pressure monitor	on/off
pressure high/low limit	099 %

configuration parameters

configuration parameters	
sequence	spot/roll- spot/seam
retract	standard/hilift +/hilift-
frequency	50/60 Hz
contactor time	0200 s
blanking	on/off
await pressure	on/off
toroid test	on/off
sensor	toroid/CT
heat range	high/low

calibration parameters

toroid sensitivity CT sec:pri ratio	1002000 mV/kA 1:1199:1 -1 kA+1 kA 2 points, kN/V
CT sec:pri offset	
pressure	
counter	
actual count	09999
end count	09999



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