



typical applications

poke guns



plier guns



bench welding



Microstar 700

data sheet



Control and monitor for resistance spot welding

The Microstar 700 is a self-contained spot welding control and monitor. It uses a Constant Current weld processor with air-cooled thyristors and is particularly suitable for welding a wide range of thin gauge materials in mild steel and stainless steel. The Microstar 700 has 16 weld programmes, selectable ½-cycle mode, primary or secondary monitoring and count/fault indicators.

features	benefits
Bright vacuum-fluorescent display and illuminated buttons	easy to use
compact, rugged enclosure	portable or machine-mountable
built-in air-cooled thyristors	drives transformers up to 5 kVA
integrated valve control	drives 24 V dc air valves and works with coil or pneumatic heads
count up to 9999 welds	can be used for electrode maintenance
ac primary or secondary current measurement	versatile
16 welding programs	settings for all your applications
current calibration feature	accuracy
built-in programmer	no additional cost
50 or 60 Hz operation	international

options

Toroids (for secondary monitoring)

configurations

380 to 480 V 50/60 Hz supply

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program parameters x 16		environmental	
squeeze	0..99 cycles	temperature	
weld1 & cool1	0..99 cycles	- operating	+32° to +122° F
weld2 & cool2	0..99 cycles	- storage	-13° to +158° F
pulses	0..9	humidity	
hold	0..99 cycles	- operating	up to 80% (relative)
upslope	0..99 cycles	- storage	10% to 90%
downslope	0..99 cycles		
heat1 and heat 2	0..99 %		
current1 and current 2	0..60 kA		
monitoring parameters x 16		dimensions	
current monitor	on/off	height	10.8"
weld1 and 2 low limit	0..99 %	width	10.0"
weld1 and 2 pre-limit	0..99 %	depth	6.9"
weld1 and 2 high limit	0..99 %		
pre-limit count	0..99		
configuration parameters		monitoring options	
sequence	spot/ ½ cycle (alt/ +/-)	description	part number
frequency	50/60 Hz	3" flexible toroid	296545
blanking	on/off	6" flexible toroid	296546
toroid test	on/off	12" flexible toroid	296547
sensor	toroid/CT	5 m extension lead (calibrated toroid)	90-90-02-09
heat range	high/low	5 m extension lead (uncalibrated toroid)	90-90-02-10
on fault	stop/continue		
interlock	on/off		
calibration parameters			
toroid sensitivity	100..2000 mV/kA		
CT sec:pri ratio	1:1..199:1		
CT sec:pri offset	-1 kA..+1 kA		
counter			
actual count	0..9999		
end count	0..9999		
at end of count	stop/continue		

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