

SERRATRON 1B

Weld Controller for AC Resistance Welding



V.2004a



APPLICATIONS:

- Spot welding
- Resistance Welding
- Seam welding

WELDERS:

- Manual welding guns
- Pedestal welders
- Robot welding guns

- ▶ 127 welding programs
- ▶ Integrated programming unit
- ▶ Proportional valve control
- ▶ Sequence with 3 weld times
- ▶ Electrode wear compensation
- ▶ Electrode tip dressing control
- ▶ Ethernet connectivity
- ▶ Wide weld sequences
chained mode and successive



SERRATRON 1B/5

Version for direct
replacement of old series
Serratron 5000 / 7000.

SERRATRON 1B



BASIC FUNCTIONS

Maximum number of power units	1
Communication network	Ethernet + TCP/IP
Control modes: constant current, current monitoring, firing angle	●
Electrode wear compensation through editabe curves	●
Sequence of 3 weld times	●
Log of the latest welds / Log of the latest error messages	512
Parameter storage without the need of battery back up	●

PHYSICAL CHARACTERISTICS

	CSP-1B	CSP-1B/5
Dimensions (Height x Width x Depth)	202 x 134 x 49 mm	300 x 135 x 192 mm
Weight	1,0 Kg	4,8 Kg
Colour front panel	Red	Black
Working temperature	-5° to 60°	

ELECTRICAL CHARACTERISTICS

Synchronisation	24 VAC
Frequency (automatic detection)	50/60 Hz
Power supply	24 VA ^{+15%} / _{-20%}
Power rating	12 W

PRESETTED INPUTS- OUTPUTS

Digital inputs (18...28V/10 mA)	18
Current measuring input (20÷2300mV/kA)	1
Firing outputs (24 Vdc / 1A, 5kHz pulses)	1
Digital outputs (24 Vdc / 1A)	8

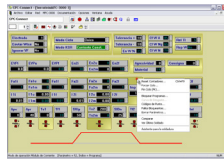
OPTIONS

Reference	Description
CPC-Connect	Programming software package
SERRAstik	Memory module
BCF-05	Flexible Sensor Coil Ø 50 mm
BCF-12	Flexible Sensor Coil Ø 120 mm
BCF-18	Flexible Sensor Coil Ø 180 mm
X3Cb	Wiring connectors pack
XM-Cb1	Cable 1.5 m + Cb1 terminal
XM-Cb2	Cable 1.5 m + Cb2 terminal
XM-Cb3	Cable 1.5 m + Cb3 terminal



CPC-Connect

BCF sensor coil



ORDER CODES

CSP-1B - HR

Format

CSP-1B	Regular compact format
CSP-1B/5	Format for replacement of old series

Current scope

HR	Hi-Res. Currents < 50 kA - Double resolution of measurement
ST	Standard. Currents > 50 kA - Standard resolution

