WELD CONTROL



Best model of easy operation

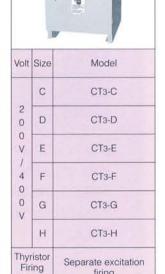


MODEL CE1-6-4 CE1 Welding set data channel/Number of squeezing channe Fundamental Number of pulsation/Welding process step Heat 1 - 2 time 0 - 99 cycles 0(2) - 99 cycles Time control Other time Current slope 0 - 29 cycles for up Welding current 5.0 - 50.0kA Current range (secondary) 0.5 cycle Current response speed 0.5 cycle Voltage compensation response speed Weld interlock output Non-contact circuit Off time output 1a contact output Monitor error output 1a contact Additiona Constant current monitor ±5% function Full heat Voltage compensation full heat dete Lack of cooling water Lack of cooling water for SCF Welding power discontinuation Welding power & voltage SCR short-circuited AC100V + 10% -15% 50/60H Control powe Power supply AC220V/440V + 10% -20% 50/6 Welding power Outline W90 × H300 × D265mm W300 × H9 Vertical type/Lateral type 4.5kg

I-6-4P	8CH INTERLOCK DEVICE
0 0	3363333 W. Crons
	■ Main features
	1. Interlock for a maximum of 8
	units.
	2. Interlock priority is programmable
	3. Use of PC board circuit makes unit
	compact, reliable, and long-lasting
	Main specifications
	Control unit power source: 90 – 110V AC.
	Dimensions: W300 × H80 × D285
	■ Priority interlocking
	program (ex.)
	A+1CH(A)
ection	B 2CH(C) C+- 3CH(D)
2011011	DH+4CH(B)
	□ 5CH(C) → 6CH(D)
	7CH
z	8CH +
0Hz	During A or B are heating if C and
00 × D265mm	D become waiting to heat at the
	same time, first heat C then D.

WM-4





firing

58/min

Dimensions W350 × H500 × D360mm

CONTACTOR

* Due to ongoing improvements, specifications may change without notice.

System

Cooling

- * Please install in a place with good environment condition as they are electronic precision devices.
- * Make sure the grounding wiring is executed for your safety guarantee



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Extra-Popular CK Series Renewal!

To convert customer's feelings into real form

31 Channels **Applicable**

31 kinds of welding condition can be stored. Specifications can be changed into 4 channels and 15 channels by a simple configuration.

Enhanced Counter Function

The counter function for number of dotting per channel, number of work pieces and total number of dotting was equipped with. Counting up output is available respectively.

Direct set-up with numeric keypad

Numeric keypad is adopted for operation. Swift and accurate input is available.



One-look 2-stage current display

The screen can be switched among 1-stage-2-stage, 2-stage-3-stage, and 1-stage-3-stage during 3-stage power on setting.

Direct error signal sign by main parameter

Equipped well with convenient functions

Simple auto-squeeze function

Initial inflating status will be held when starting, and sequence will begin according to the initial inflating time once external input is confirmed.

(application example)

Defective detecting function

If limit switch is ON when the initial inflating time over because of limit switch install-



ing and timer inputting, error will be output while being inflated.

(Limit switch installation is optional.) * Combination use of the above simple squeeze func-

tion and defective detecting function is not available.

Data backup function The data can be imported and exported to the

related computer upon optional setting.

Power disconnection function

The power can be disconnected immediately by external input.

Panel setting disabling function

Set-up can be blocked with a 4-digit password.

Inflating force switchover function upon panel setting

Inflating force can be switched over together with current and power on time using an electro-pneumatic proportional valve

Direct set-up is available with kN. (Electropneumatic proportional valve unit and connectors are optional)

		Item	Specifications
Fundamental		Welding set data channel	15 or 31
		Number of squeezing channel	2
		Number of pulsation	3
		Welding process step	4 or 8
Time control		Heat 1-3 time	0 – 99 cycles
		Other time	0(2) - 99 cycles
		Pulsation	2 – 99 times
		Current slope	0 – 98 cycles for up or down
Current control		Welding current	2.0 - 50.0kA
		Voltage compensation control	Constant current compensation
		Current detector coil	WMC-451N
inpu	External input/output	Heat-on output	Solid-state circuit
		Pulsation-on output	(Alternately switched)
		Weld input	Equipped
		Welding step timing output	One make-contact
		Outside squeezing mode input	Equipped
		Squeezing pressure control output	0.00 – 999kN (for 15ch or 31ch) (option
	10000	No work input	Equipped
Additional		Spot counter	0 - 99 (for 15ch or 31ch)
function	Counter	Work counter	0 - 9999 (for 15ch or 31ch)
		Total spot counter	0 – 99999 (for 15ch or 31ch)
		Step-up counter	0 - 9999 (for 3SVch)
	Monitors	memory error	SCR short-circuited
		Up./low. limit current error	Current checker
		Full heat check	Contact checker
		Cooling water error	Welding power discontinuation
		Up./low. limit firing angle monitor	Fused electrode detect/ No work
		(Error memory capacity : 10 points)	
Data store		Data backup	with flash memory
Environmental condition		Operation temperature	0 - 45°C
		Storing temperature	-10 - +60°C
		Allowable humidity	45 - 85% (without condensation)
Power supply		Control power	100V AC+10%/-15%, 50/60Hz, 30VA
		Welding power	220V/440V AC+10%/-20% 50/60Hz
Dimen	sions	Vertical type CK4-8-15	W90 × H300 × D325
Diffiell	310115	Lateral type CK4-8-15P	W300 × H90 × D325
Weight		Vertical type/Lateral type	5kg