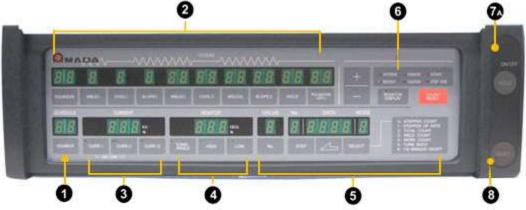


## CT-110D CY-210D

Various set-ups by simple operations.

## **Features**

- Welding mode for high-tensile steel plate.
- Clear display with LED.
- Fifteen weld schedules and nine current steps.
- Three-step welding system with up-slope and down-slope features.
- Primary and secondary constant current and power supply voltage compensated control can be selected.
- Build-in current monitor and conduction angle monitor.
- Panel cover for protection from oil mist.
- Three counters.



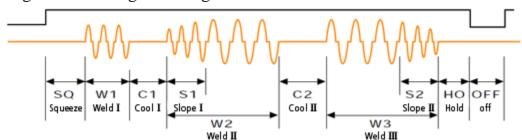
• [1] Condition No.

Displays the number to be registered with a certain weld schedule, and the number assigned for a registered weld-schedule for operation.





• [2] Three-stage weld type Even steel plates, which are relatively difficult to weld, can be handled by combining the three-stage welding.



- [3] Welding current
  Displays the welding current settings and measured currents at "W1: Weld I" to
  "Weld III".
- [4] Current monitor/power angle monitor

  The current monitor allows you to set the upper and lower limits within ±1 to 49% in reference to the set current and it monitors the current fluctuation. The conduction angle monitor allows you to set its monitoring range between 1° to 180° and it monitors the maximum conduction angle.
- [5] Step-up/counters/turns ratio of a transformer Various settings can be made by selecting a mode from 0 to 5.
- [6] Status monitor
  You can check the current timer status.

	Preset		Reset		Output signal		Buzzer	
	CT- 110D	CY- 210D	CT-110D	CY-210D	CT- 110D	CY-210D	CT-110D	CY- 210 D
Total counte	0 <b>~</b> 999	0~9999	Panel, External	Panel	Error	Error	Continuous sound	None
Weld counte	0~99	0~99	Automatic , Panel, External	Automatic , External	None (Buzzer only)	Insufficien t weld count	1 sec	None
Work counte	0 <b>~</b> 999	0~9999 (Monito r only)	Panel, External	Panel	Interloc k output	None	Intermitten t sound	None

• [7A] Welding/pressurization/count





When "Pressurize" is set for tip replacement or electrode polishing, while Run is input, Pressurize is output. When "Weld" is switched Off, only the sequence operates. Switches the count On and Off with "Count".

- [7B] Welding On/Off
  If it is switched off while tip dressing or test operation, only the sequence will be
- [8] Reset Pressing this key while malfunction occurred will deactivate malfunction status.

## **Specifications**

Model	CY-210D	CT-110D			
Power requirements for welding power supply	220 / 230 / 240 / 380 / 400 / 415 / 440 / 460 / 480VAC -25% +10%, 50/60Hz				
Power requirements for control power supply	100 / 120 / 220 / 230 / 240VAC +/-20%, 50/60Hz				
Control method	Primary or secondary current feedback type constant current control through thyristor phase control or Power requirements fluctuation compensation control type				
	15 schedules				
Timer setting	"SQUEEZE," "WELD II," "COOL II," "WELD III," "SLOPE II," "HOLD," "OFF" 00 - 99cycles				
	"SLOPE I," 0 - 9cycles				
	"WELD I" "COOL I" 0 - 9cycles	"WELD I" "COOL I" 00 - 99cycles			
Pulsation count Switching used with Off mode 0		mes			
Current setting range	1.0 - 80.0kA (Maximum current setting: 5.0 - 80.0kA)				
Control speed	Secondary current feedback type constant current control 1/2 cycle (Requires toroidal coil)				
	Primary current feedback type constant current control 1cycle (Requires				





	CT coil)					
	Power requirements fluctuation compensation control 1cycle					
Current accuracy	For secondary current feedback type constant current control					
	a) $\pm 2\%$ max. of welding power supply voltage fluctuation $+10\%$ - $15\%$ (Accuracy based on error relative to full scale.)					
	b) $\pm 2\%$ max. of resistance load fluctuation $\pm 15\%$ (Accuracy based on error relative to full scale.)					
	c) $\pm 2\%$ max. of induction load fluctuation $\pm 15\%$ (Accuracy based on error relative to full scale.)					
Weld force output	Either 2-series control power supply voltage (1A max.) or 24VDC (0.6A max.)					
	2 series, 9 stages	1 series, 9 stages				
Step up	Counter 0 - 9999					
	Current increase ratio 50 - 200% of the set current in 1% step					
External input signals	INTERLOCK/COUNT RESET (dip-switch-selectable):If a closed-contact signal is input,the system waits for the power to be turned on or the count to be reset.	INTERLOCK/WELD No. SET (dip-switch-selectable):If a closed-contact signal is input, the system waits for the power to be turned on when the interlock function is selected.				
External output signals	INTERLOCK/COUNT UP (dip-switch-selectable):Outputs from 2 cycles from when the power is turned on until the power is turned off, or outputs when the counter expires (contact capacity: 110 V AC, 0.5 A)	INTERLOCK/WELD No. ERROR (dip-switch-selectable): Output from 2 cycles before the power is turned on until the power is turned off, or when a weld-count error occurs (contact capacity: 110 V AC, 0.5 A)				
Error output	Self-diagnosis error Start input error Current-setting error Current stepper-up ratio setting error Thermostat error Thyristor short-circuit error No-power-supply error Current upper-and-lower-limit error					





	Cond. angle error Full-wave error Total counter-up Insufficient weld count (CY-210D Only) Step-up completion
Mass	4.5kg

Specifications subject to change without notice.

## **External view**

• CT-110D

