

■ Pulsed Heat Controller



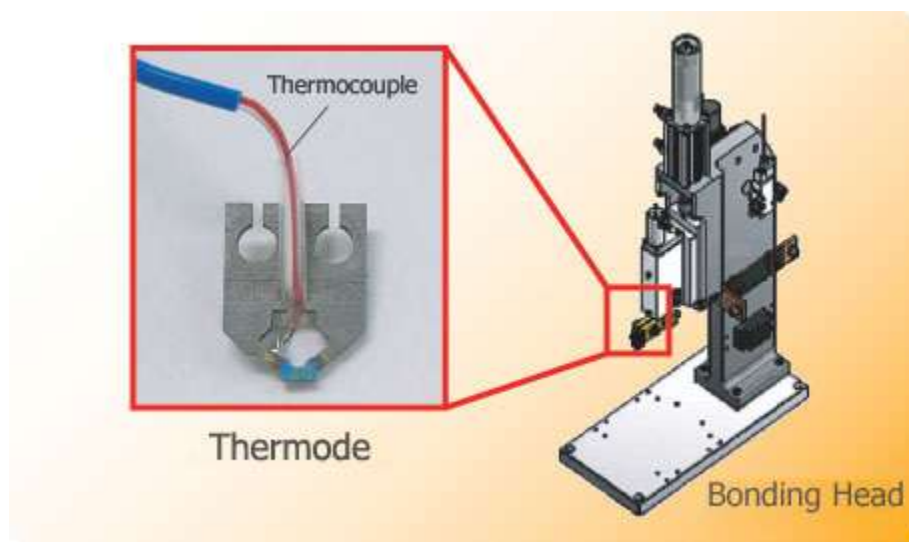
MR-140A

Compact remote control model!
Designed for easy integration
into automated equipment.

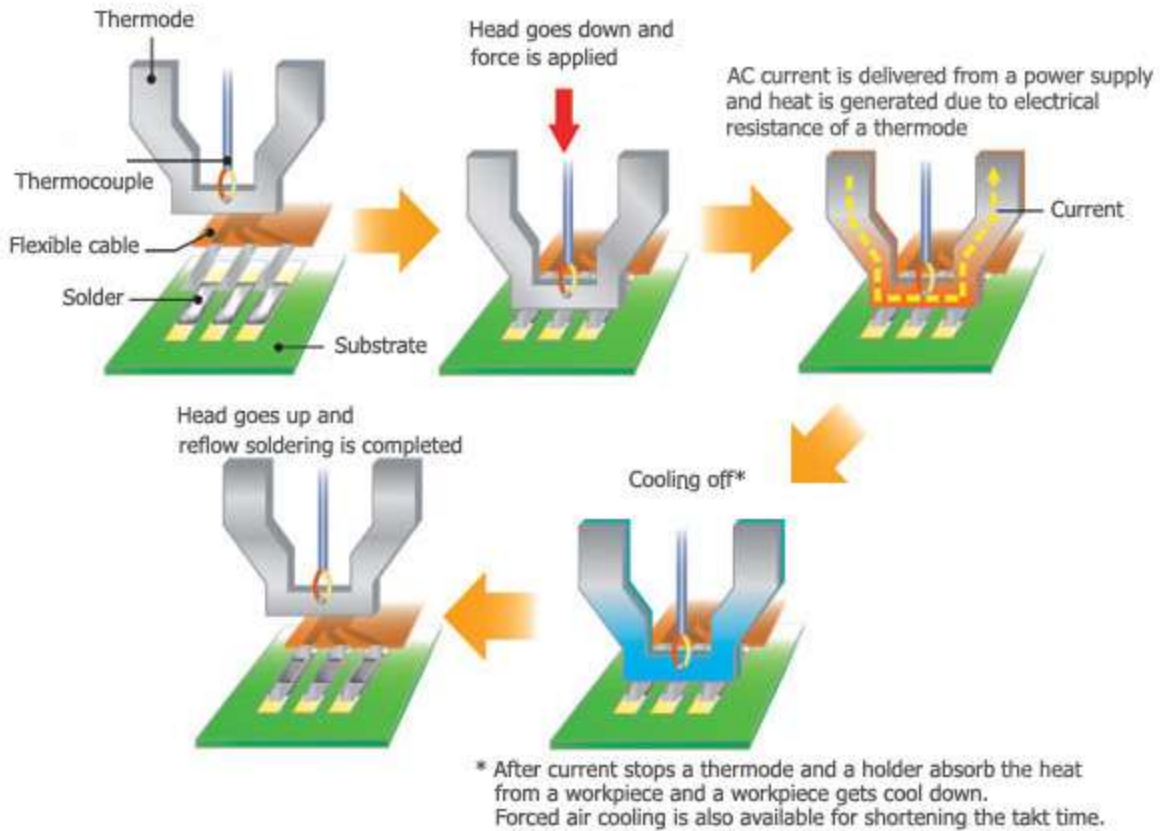
Feature

[MR-140A]

MR-140A pulsed heat controller controls pulsed current for heating to obtain ideal temperature to perform reflow soldering precisely. Real-time temperature feedback from a thermocouple attached to a thermode enables to adjust heat temperature in detail and precision performance according to the programmed heat profile can be done. MR-140A shows great performance also at ACF bonding and heat staking.

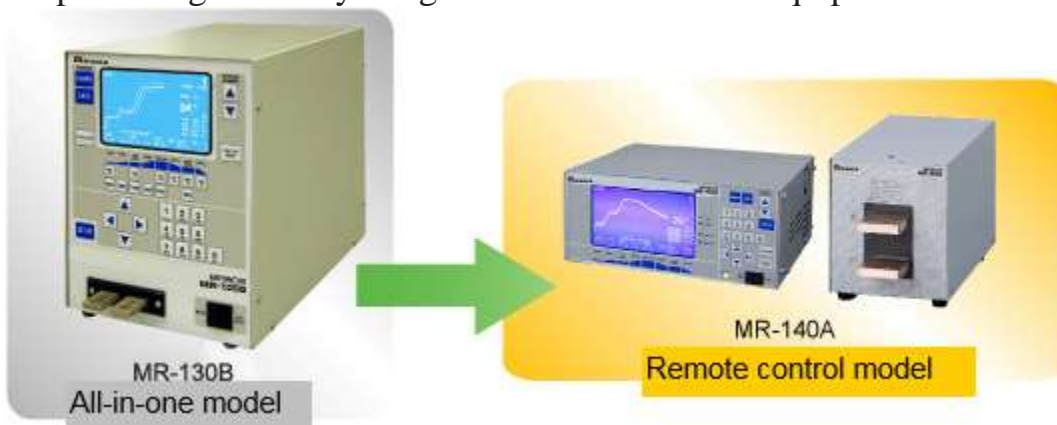


- Process Example -

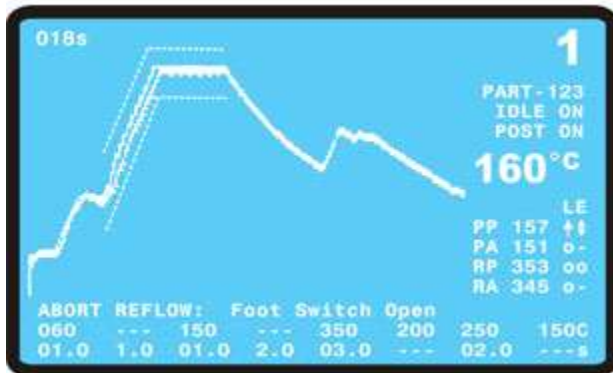


Features

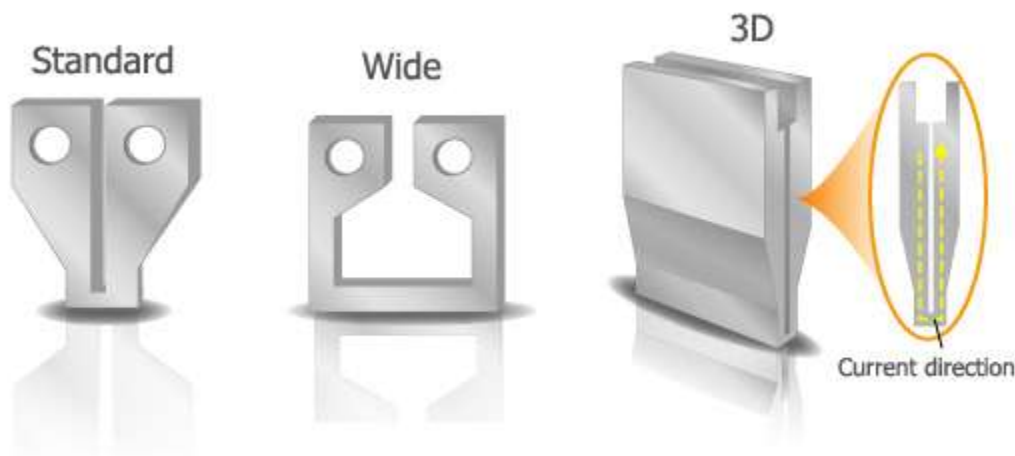
- Compact remote control model
The Control version consists of 2 units: one is a controller with a control screen and the other is an output transformer.
This allows you to place the transformer next to the reflow head, so it reduces output loss.
Compact design for easy integration into automated equipment.



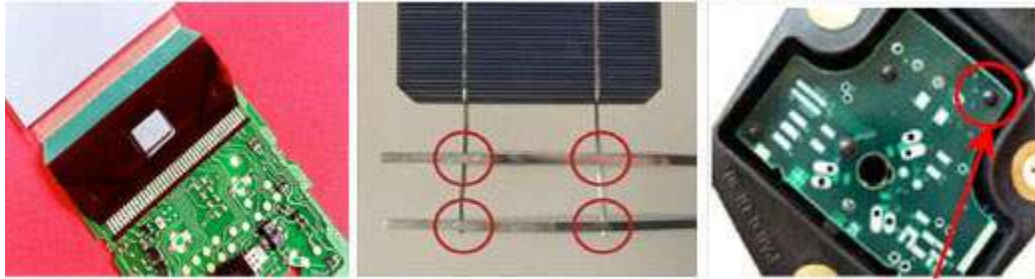
- Large LCD
Displays both graphic and numerical data of setup values, measured values, waveforms, a schedule number and a program name all at once on a same screen.



- Transformer selectable
Four types of transformers. 2kVA / 4kVA by output heating capability, and high-voltage / low-voltage by secondary voltage.
You can choose transformer to match your requirements.
- Preheat and Reflow Control
Preheat and Reflow Control is newly added to MR-140A.
The control will switch to the Preheat stage and Reflow stage after the temperature reaches the target temperature in addition to the conventional heating method that is given priority at setting time.
- IDLE HEAT and BASE TEMP
MR-140A can set wider range IDLE HEAT from 25°C to 300°C, than previous model from 25°C to 100°C.
- A variety of thermode lineups
Thermodes which meet customers' requirements can be offered. Please consult for a design of it.



- Applications



PCB and FPC cable

Solar cell and cell tab ribbon

Heat staking of plastic

Specifications

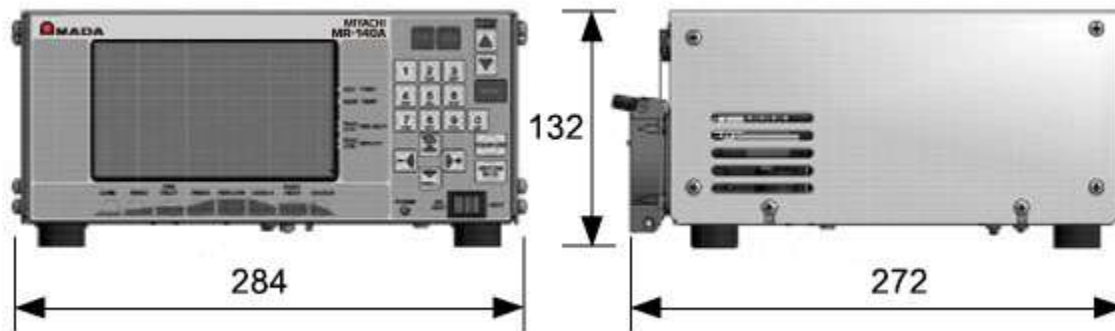
Model		MR-140A
Power requirements		180~264VAC 50Hz/60Hz
Breaker capacity		15A
Temperature range	600°C and below	±6°C or ±2% of reading, whichever is greater
	Above 600°C	±3% of reading
Repeatability		±1% of setting
Display Range		15~999°C
Temperature range	BASE	25~300°C
	PREHEAT	60~500°C
	REFLOW	60~999°C
	COOL1	25~300°C
	POSTHEAT	25~999°C
	COOL2	25~300°C
	IDLE	25~300°C
Time periods	BASE	0.0~9.9 seconds
	RISE1	0.0~9.9 seconds
	PREHEAT	0.0~99.9 seconds
	RISE2	0.0~9.9 seconds
	REFLOW	0.1~99.9 seconds

	POSTHEAT	0.0~99.9 seconds
HEATING RATE	Heating Rate Control	Fast / Medium / Slow / Very Slow
	SET FINE HEATING RATE	0~99%
Transformer		2kVA (High Low) / 4kVA (High Low)
Cooling method		Air cooling
Schedule Setup *		Front panel or external controller via RS-232C/RS-485C
RS-232/RS-485 Connectors type		Standard 9 Pin D-Sub female connector
User Programmable Heat Profiles		63
Ambient temperature / humidity		15°C~40°C / 93% (40°C) No condensation

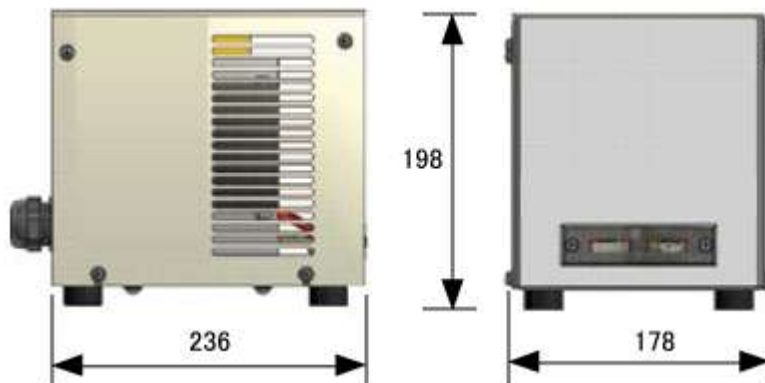
- * External controller will be prepared by customers.

External view

- MR-140A (Weight: 8.6kg)



- 2kVA Transformer (Weight: 14.1kg)



- 4kVA Transformer (Weight: 21.8kg)

