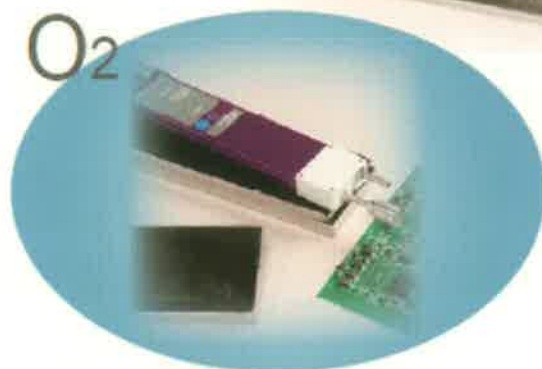
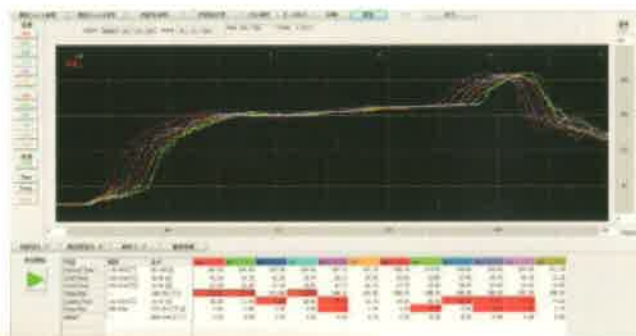
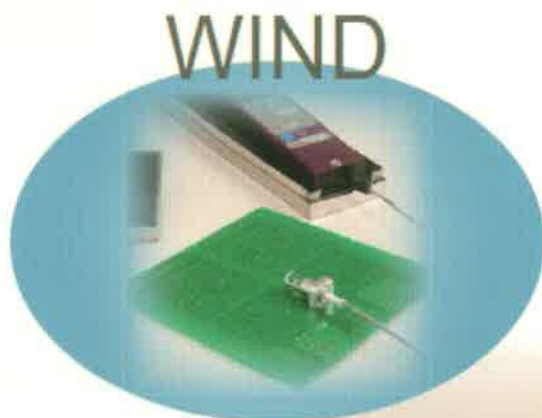


Reflow Checker (Modular Type) RCX-1 series



Malcom offers New Concept Reflow Oven Measurement System
Add your Choice of Module to RCM-S main unit. (6 points temperature measurement)

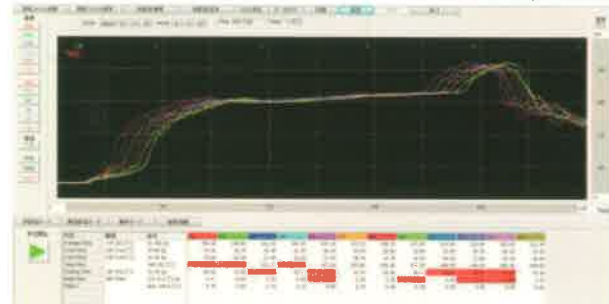
Malcom's Unique Modular System Innovates Reflow Process Control

RCX-S Reflow Checker Memory Unit (6 channels)

- Thermocouple Check function is equipped.
- Memorize up to 20 profiles, making it possible for continuous measurement of some production lines. (Please fully cool down RCX-S Reflow Checker Memory Unit (6 channels) before next measurement.)
- Bluetooth enables Wireless Data Transmission.
- AAA batteries are available. Built-in Battery Monitoring function.

RCX-T Reflow Checker Memory Unit (plus α 6 channels)

- Add RCX-T Reflow Checker Memory Unit (plus α 6 channels) to RCX-S Reflow Checker Memory Unit (6 channels), providing 12 points measurement.
- Can be used as 12 channels to study profiles, trial production and evaluation, for normal production, employed as 6 channels.
Additional Heat Resistant Case for RCM-T is necessary.



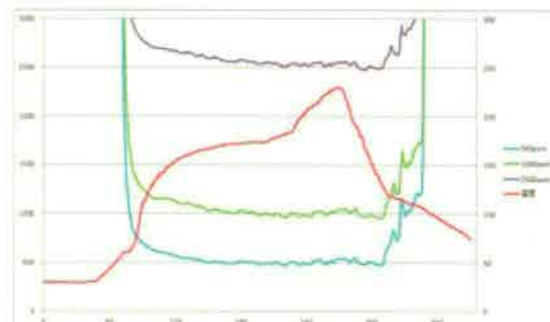
TMR-1 RCX-T Measurement Data



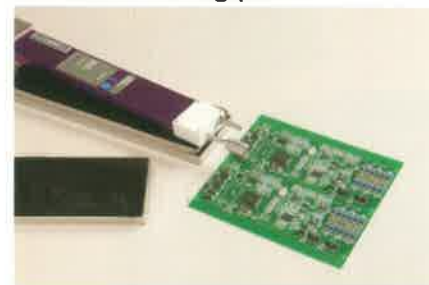
RCX-T

RCX-O Reflow Checker Memory Unit (plus α O₂ Concentration Monitor)

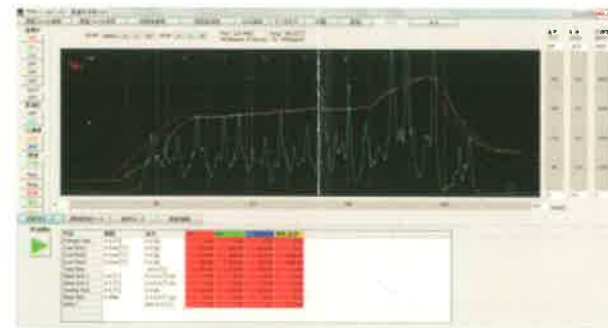
- A module to measure O₂ Concentration.
- Measure O₂ Concentration of the important point on a PC board.
- Take measurement in the same reflow conditions as that of during production.
- The measurement range is selectable.
(50 ppm ~ 5,000 ppm or 1,000 ppm ~ 10,000 ppm)
Additional Heat Resistant Case for RCM-O is necessary.



TMR-1 RCX-O Measurement Data



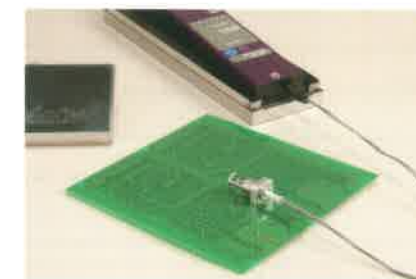
RCX-W



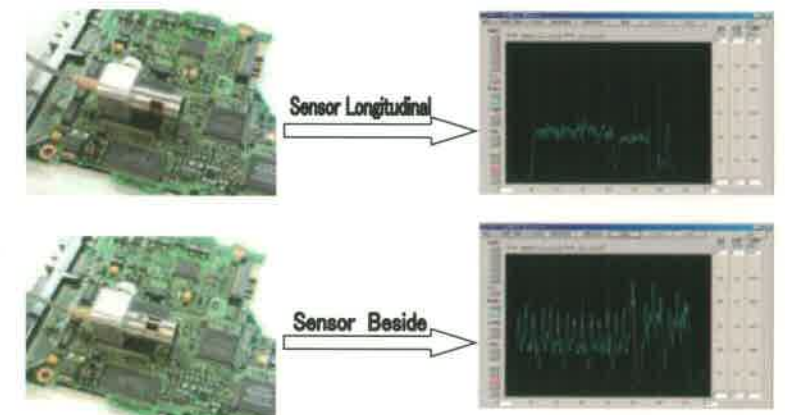
TMR-1 RCX-W Measurement Data



RCX-S



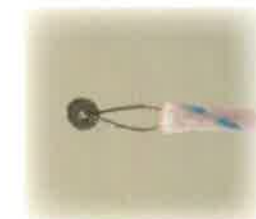
RCX-W



OPTION

Easy Attachment K-Type Thermocouple!

Now "Easy Attachment K-Type Thermocouple" is available. Small copper plate (nickel plated) is welded to a tip of thermocouple. A flat round tip offers easy installation using adhesive or soldering. Solve troubles of difficult mounting and temperature difference caused by mounting difference. Anybody can attach thermocouples quickly and reliably.



TMR-1 Software

Evaluate and control reflow process from different angles, not only temperature control of a reflow oven. The temperature profile prediction function helps smoothly examine a profile.

- Simultaneously display Profile and Data of Temperature, Wind Speed, O₂ Concentration on the same screen.
- Profile Support function offers easy profile creation.
- TPD files, the file format of TAM series, are viewable.

RCX-W Reflow Checker Memory Unit (plus α Air Velocity Monitor)

A module for Wind Speed measurement.

- A wind speed sensor mounted on a PC board measures wind speed of the important point.
- Take measurement in the same reflow conditions as that of during production.
- Measure wind speed from upper or side directions.
Additional Heat Resistant Case for RCM-W is necessary.

Special Features

- Add your Choice of Module to RCM-S main unit. (6 points temperature measurement)
- We offer you Reflow Checker Memory Unit (6 channels, plus α 6 channels, plus α O₂ Concentration Monitor and plus α Air Velocity Monitor)
- Simultaneously display Profile and Data of Temperature, Wind Speed, O₂ Concentration on the same screen.
- Profile Support function allows for easy profile creation.
- AAA batteries or Lithium Ion battery (option) is selectable on the purchase.
- The newly adopted Bluetooth enables Wireless Data Transmission.
- Memorizing up to 20 profiles increases the efficiency of collecting data.
- Thermocouple Check function avoids measurement before realizing thermocouple disconnection.

Specifications

RCX-S Reflow Checker Memory Unit (6 channels)

Measured Temp. Range	0~500℃ *1
Max. Measurement Time	8 hours *1 *2
Sampling Time (sec.) /Max. Storage Time	0.05/4h50min, 0.1/10h40min, 0.2/21h20min, 0.5/48h20min, 1.0/96h40min, 2.0/193h20min, 4.0/386h40min, 8.0/773h20min Arbitrary setup possible
Temp. Accuracy	±1℃
Measurement Points	1~6 points
Heat Resistant Connector	Miniature Connector
Input	Thermocouple JIS-K 1kΩ max. (φ 0.1, 10m)
Power Supply	AAA batteries Manganese batteries Alkaline battery Ni-MH battery Lithium Ion battery (option)
Outer Dimensions	Main Unit: 55 (W) x 170 (D) x 18 (H) mm Heat Resistant Case: 65 (W) x 245 (D) x 25 (H) mm
Data Transmission Method	USB or Bluetooth
Weight	Approx. 550g (Conveyor Attachment System is not included)

*1 It is not the heat resistant time of memory unit. *2 It is the experimental value by AAA batteries. The max. measurement time depends on battery capacity.

RCX-T Reflow Checker Memory Unit (plus α 6 channels)

Measured Temp. Range	0~500℃ *1
Max. Measurement Time	5 hours *1 *2
Sampling Time (sec.) /Max. Storage Time	0.05/4h50min, 0.1/10h40min, 0.2/21h20min, 0.5/48h20min, 1.0/96h40min, 2.0/193h20min, 4.0/386h40min, 8.0/773h20min Arbitrary setup possible (Synchronized with RCM-S)
Temp. Accuracy	±1℃
Measurement Points	1~12 points (Add to RCM-S)
Heat Resistant Connector	Miniature Connector
Input	Thermocouple JIS-K 1kΩ max. (φ 0.1, 10m)
Power Supply (Supplied from RCM-S)	AAA batteries Manganese batteries Alkaline battery Ni-MH battery Lithium Ion battery (option)
Outer Dimensions	Main Unit: 55 (W) x 253 (D) x 18 (H) mm Heat Resistant Case: 114 (W) x 250 (D) x 25 (H) mm
Data Transmission Method	USB or Bluetooth
Weight	Approx. 1000g (Heat resistant Case and RCMS are included.)

*1 It is not the heat resistant time of memory unit. *2 It is the experimental value by AAA batteries. The max. measurement time depends on battery capacity.

RCX-O Reflow Checker Memory Unit (plus α O₂ Concentration Monitor)

Max. Measurement Time		Ni-MH battery: Approx. 40min. *3 Lithium-Ion rechargeable battery: Approx. 80min. *3
Sampling Time (sec.)		0.05, 0.1, 0.2, 0.5, 1.0, 2.0, 4.0, 8.0 Arbitrary setup possible (Synchronized with RCM-S)
O ₂	Measurement Principle	Zirconia Limiting Current method
	Measured Range	50ppm~5000ppm or 1000ppm~10000ppm (Specified when ordering.)
	Measurement Accuracy	50ppm~5000ppm: ±5%FS 1000ppm~5000ppm: ±10%FS 1000ppm~10000ppm: ±5%FS
Power Supply (Supplied from RCM-S)		Ni-MH battery (AAA batteries x 3pcs.) Lithium-Ion rechargeable battery *4
Outer Dimensions		Heat Resistant Case for RCX-O: 65 (W) x 383 (D) x 25 (H) mm (Protrusions are not included.)
Weight		Approx. 950g (Conveyor Attachment System is not included)

*3 The measured temp. range and the max. measurement time does not consider heat resistance, and cannot be measurable time in a reflow oven.
*4 Alkaline battery and Manganese batteries can not be used. AAA batteries or Lithium-Ion rechargeable battery must be specified when ordering.

RCX-W Reflow Checker Memory Unit (plus α Air Velocity Monitor)

Measured Wind Speed Range	0.1~5m/s
Measurement Accuracy	(5%±0.1m/s) of the indicated value
Sampling Time (sec.)	0.5
Measurement Points	1 point
Outer Dimensions	Main Unit: 55 (W) x 285 (D) x 18 (H) mm Heat Resistant Case for RCX-O: 65 (W) x 383 (D) x 25 (H) mm
Weight	Approx. 760g (Conveyor Attachment System is not included)

* All specifications are subject to change without notice.

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