

RADIANCE INDUSTRIAL CO., LTD.	PRODUCT MANUAL		REV.: 5
	PRODUCT	ROTARY PROBE POCKET THERMOMETER	23 Aug, 2012
	MODEL	RT343	PAGE 1 of 2

FEATURES

- Wide Measurement range
- Rotary probe design
- Low battery indication
- Stainless steel probe
- Pocket size

OPTIONS

- 1) RT343MHCF:
 - Maximum / minimum reading memory
 - Date hold function
 - Celsius and Fahrenheit exchange
- 2) RT343A:
 - Maximum / minimum temperature memory
 - Date hold function
 - Celsius and Fahrenheit exchange
 - High / low temperature alarm setting



SPECIFICATION

Measuring range	1) -50 ~ 200 °C / -58 ~ 392 °F 2) -50 ~ 300 °C / -58 ~ 572 °F
Display accuracy	±1°C between -19.9 ~ 119.9°C ±2°C between -50 ~ -20°C and 120 ~ 199.9°C ±3°C between 200 ~ 300°C ±1.8°F between -3.8°F ~ 247.8°F ±3.6°F between -58°F ~ -4°F and 248 ~ 391.8°F ±5.4°F between 392 ~ 572°F
Display resolution	0.1° over full range
Alarm setting resolution	1° over full range (option 2 only)
Temperature reading update	1 second
Temperature unit setting	Either °C or °F at ex-factory setting
Auto power off	After idle for 10 minutes (not applicable for option 1 & 2)
Display size	28(W) x 16(H) mm
Battery	1.5 volt, size AAA or equivalent x1 piece (included)
Battery life	About 2,400 hours in continuous operation
Probe size	3.5(∅) x 115(L) mm
Product size	52(W) x 160(H) x 21(D) mm
Ambient temperature	0 ~ 50 °C / 32 ~ 122 °F

INSTALLATION

1. Open battery compartment.
2. Install battery with correct polarity positioning.
3. Close the battery cover.

OPERATION

MEASUREMENT

1. Pull and rotate the probe in clockwise direction to your desired application angle.
2. Insert probe into test substance about 25mm (1") and get the reading when it is steady.

TEMPERATURE UNIT

1. Press [°C/°F] to select temperature unit (option 1 only).
2. Press and hold [°C/°F] for about 3 seconds then release to select temperature unit (option 2 only).

DATA HOLD (OPTION 1 & 2 ONLY)

1. Press [HOLD] once will retain the display reading and "HOLD" icon will be flashing.
2. Press the button again will return to normal display.

MAXIMUM / MINIMUM READING MEMORY (OPTION 1 & 2 ONLY)

1. Press [MAX/MIN] once will display the maximum reading and the "MAX" icon will be flashing.
 2. Press the button once more will show the minimum reading and the "MIN" icon will be flashing.
 3. Press the button again to return to normal display.
- * To reset the memory, press and hold the button for about 3 seconds then release to reset memory values to current reading.
- * Reset the memory once before taking new maximum / minimum readings.

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HIGH / LOW TEMPERATURE ALARM SETTING (OPTION 2 ONLY)

1. Press [SET] to enable high limit setting and the HI value will be flashing.
 2. Press [↓] or [↑] to set the desired high limit value*.
 3. Press [SET] again to confirm high limit value and enable low limit setting.
 4. Press [↓] or [↑] to set the desired low limit value*.
 5. Press [SET] once more to finish setting.
 6. If the reading is out of the set limit then the alarm will sound.
 7. Press any button will stop the alarm sound but the HI or LO icon will still be flashing until the reading is within the set limit.
- * Press and hold the button will decrease or increase the value automatically and press [ON/OFF] can switch the limit off or on.

NOTE

1. Clean the probe immediately after each measurement to avoid cross contamination.
2. Do not expose thermometer to temperatures over 50°C / 122°F or use in ovens.
3. When the data hold or Maximum and minimum reading memory function is activated the thermometer can not be switched off until that function is released.
4. If thermometer shows abnormal operation then use a sharp point object to push the [RESET] button once.

ERROR SYMBOLS

Symbol	Description	Action required
	Low battery voltage	Replace the battery
LLL	1) Sensor open circuit 2) The reading is out of low range (-50°C)	1) Return the thermometer for repair 2) Keep the measurement above low Range
HHH	1) Sensor short circuit 2) The reading is out of high range (200 or 300°C)	1) Return the thermometer for repair 2) Keep the measurement below high range