

INFRARED THERMOMETER LX-200



LEC COMPANY LIMITED

Compact infrared thermometer

LX-200

The LX-200 is a small, non-contact thermometer with temperature display functionality. High-speed response is possible because the temperature range is measured from 40 to 1300°C using an optical sensor. The display is clear because it use organic EL. It has a built-in target beam, and emits a beam with the same size as the measurement area.

PART NAMES

Organic EL display

Cable gland

Lens barrel

MENU key

DOWN key

UP key

ENT key

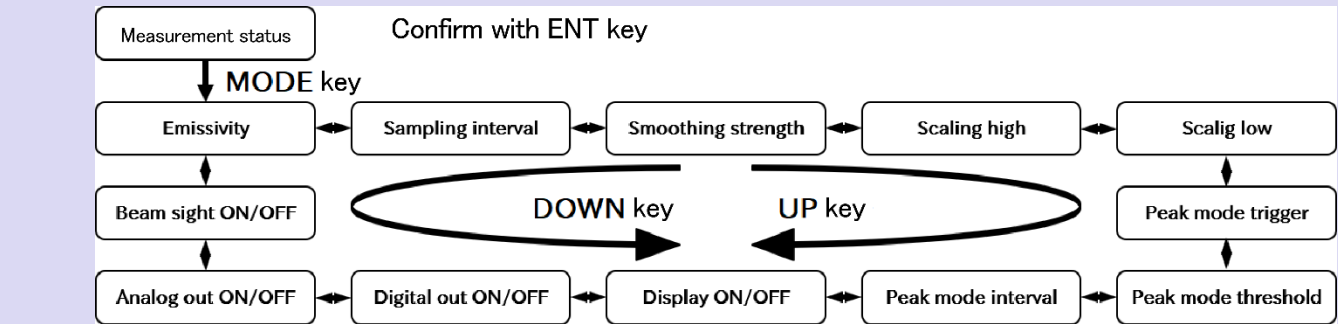
Wiring color	Signal name
Green	Power input (−) Digital output S.GND
Green white.	Power input (+)
Red	Analog output (+)
Red white	Analog output (−)
Black	Digital output RX
Black white	Digital output TX

FEATURES

- Palm-sized radiation thermometer with integrated display.
 - Directly enter various settings.
 - High-brightness LED built-in target beam.
 - High-speed response thanks to the use of a light-responsive sensor.
 - EL graphic display makes it easy to see and set up.
 - Temperature display can be turned off.
 - Equipped with tripod mounting and installation screws holes, it can be used at various levels from laboratory to factory.
- The temperature display can be turned off.
- Can supply power to the LX-200.
※Digital panel meter is optional.

SETTING

Press the MENU key in measurement mode to enter the setting flow. Use the UP and DOWN keys to select an item and press the ENTER key to confirm.



MODEL CONFIRMATION

L X - 2 0 0 -

A	B	C
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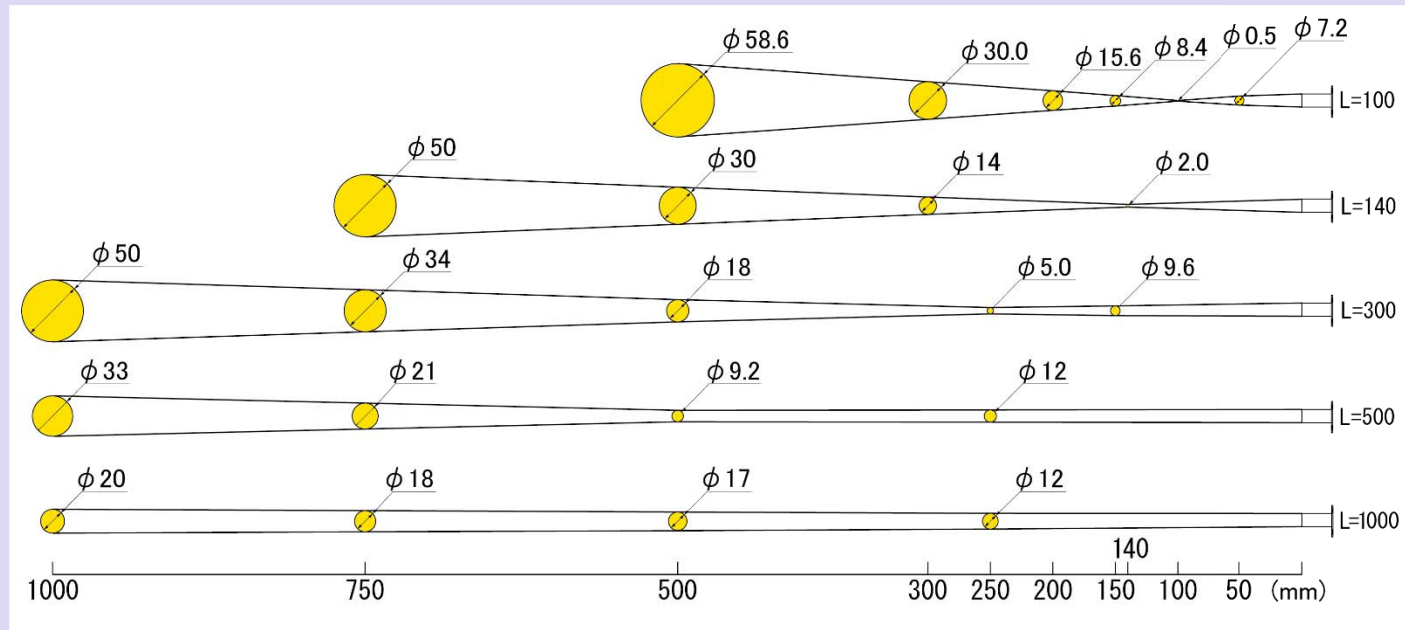
A	Temperature range
1	40~300°C
2	40~600°C
3	40~1000°C
4	40~1300°C
5	100~1300°C

B	Measuring area / distance
1	L=140
2	L=300
3	L=500
4	L=1000
5	L=100

C	Cord length
None	2m standard
5	5m

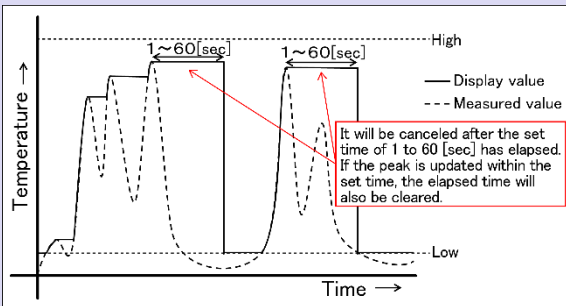
*If you select B5, the temperature range will be combined with A5.

MEASURING AREA AND DISTANCE



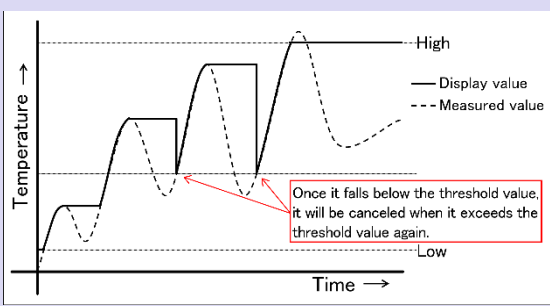
Interval operation

Once the set time has elapsed, the maximum temperature will no longer be maintained. If the peak value is updated within the set time, the elapsed time will be cleared.



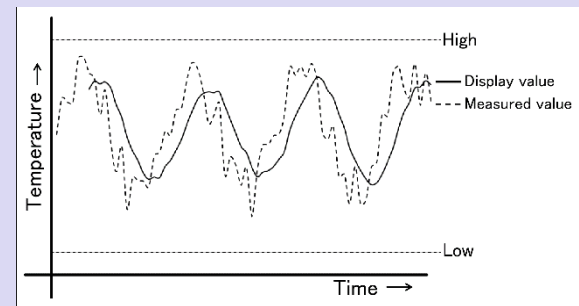
Threshold operation

The maximum temperature will be released when the temperature falls below the threshold and then exceeds it again.



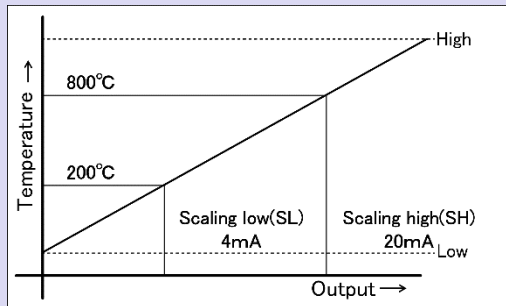
Smoothing (Moving average)

A function that reduces jaggedness in data that changes rapidly, making it easier to understand. Using moving average. The stronger the smoothing strength, the slower the response speed.



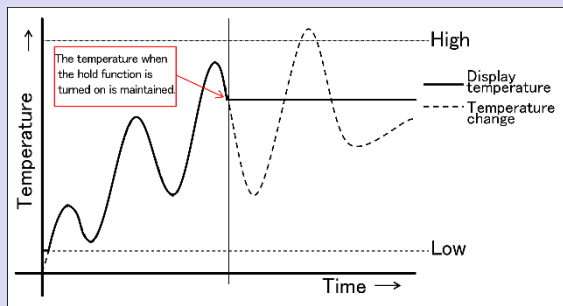
Scaling (Analog output adjustment)

Adjust the relationship between the measured temperature and the analog output.
Output=(Measurement temperature-Scaling low)/(Scaling width / Output width)+4mA
Example
Scaling width=Scaling high - Scaling low=800-200=600°C
Output width=20-4=16mA



Hold (Temperature maintenance)

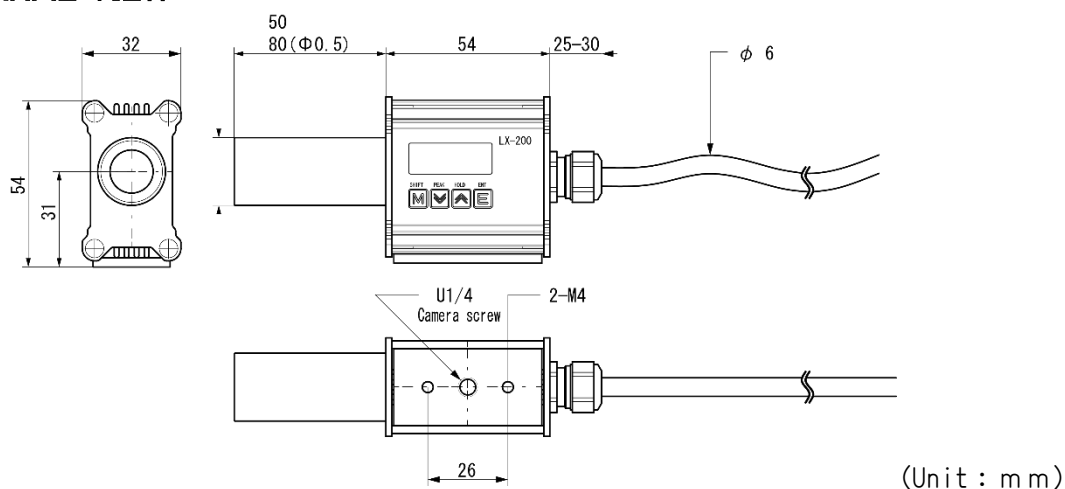
The measured value at the moment when you press UP key in measurement mode will be displayed until you cancel it. Press the UP key again to cancel. When the hold function is turned on, the word HOLD will be displayed at the bottom of the LCD. While holding, all operations except for releasing the hold will be disabled.



SPECIFICATION

	L X - 2 0 0				
Measuring range	40~300[°C]	40~600[°C]	40~1000[°C]	40~1300[°C]	100~1300[°C]
Measurement wavelength	3~5[μm]				
Measurement accuracy	F.S±1 [%] ε=1.0				
Reproducibility	±1 [°C] +1 [digit]				
Resolution	1 [°C]				
Display section	Organic EL display				
Response speed	Sampling 0.001~60 [sec] At time of shipment 0.1 [sec]				
Emissivity setting range	0.05~2.00				
Setting method	Main unit key operation				
Analog output	DC4~20 [mA] Load resistance 500 [Ω] below				
Communication	RS-232C Asynchronous : 115000 [bps], 8bit, 1stop-bit				
Power supply	DC12~36 [V]				
Operating temperature range	0~50 [°C] No condensation				
Weight	320 [g] (cord2m include)				

EXTERNAL VIEW



OPTION

TK-200  Mounting bracket (fine adjustment possible)	LD960A  Multifunctional DC24V built-in power supply	LA-1B  Pan head	U-8000  Tripod	LXA-USB  USB-RS232 Adapter
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