HIGH PERFORMANCE TYPE RADIATION THERMOMETER
IR-CZQ series

IR-CZQ

HIGH ACCURACY 2-COLOR TYPE RADIATION THERMOMETER
FOR MID TEMPERATURE MEASUREMENT

2-Color measurement from 350 °C
Single color and 2-Color measurement of each 3 wavelengths are switchable.
Best for R&D purposes!

MODELS

IR-CZQ series

Model Q: High performance type 1.55/1.35/0.9µm
Distance factor 0.50 2.00 3.300
Connecting type/Option
*N: Connector/No option
5: Connector/Analog input 4 to 20mA
J: Connector/Contact input 1P,contact input 2P
T: Terminal/Option not available
Sighting type
Blank: View finder (standard)
3: Close-up lens 300mm combination*
6: Close-up lens 600mm combination*
L: Red color laser targeting (no view finder)
*Applicable for only 2 color (IR-CZQ, IR-CZH)

FEATURES

○ Single color and 2-Color measurement of each 3 wavelengths are switchable.
○ Response time is improved to correspond measuring value drastic change.
○ It reduces the influence of optical path obstacle such as dirty window or inserted tube of furnace by 2-color ratio measurement.
○ Small and light weight body detector/converter unit type with built-in digital temperature display and parameter setting function.

IR-GZA series, the setting display unit is available for remote monitoring and remote setting.

IR-GZA
**GENERAL SPECIFICATIONS**

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<tr>
<th>Models</th>
<th>IR-CZQ</th>
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<tbody>
<tr>
<td>Optics</td>
<td>Moveable focusing lens type</td>
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<tr>
<td>Element</td>
<td>Si / InGaAs / InGaAs</td>
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<tr>
<td>Measuring range</td>
<td>0.9 / 1.35 / 1.55μm</td>
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| Accuracy rating | Lower than 1000°C, ±5°C  
1000°C to lower than 1500°C, ±0.5% of measured value  
1500°C to lower than 2500°C, ±0.6% of measured value |
| Response time | 2 to 15ms |
| Effective diameter of lens | Field diaphragm, 10mm, 200 |
| Display | Temperature display LCD 4 digits, parameter display LCD 4 digits |
| Analog output | 4 to 20mA DC (isolated output) |
| Communication interface | RS485 measured data transmission, and each parameter transmission/reception |
| Contact output | 1 point, upper/lower alarm or error signal, photo coupler  
Maximum 3O DC, 50mA |
| Working temperature | −10 to 60°C |
| Power supply | 24V DC (allowable voltage fluctuation range 22 to 28V DC) |
| Power consumption | Maximum 2.4VA |
| Connection | Exclusive connector : IR-CZQ5  
IR-CZQJ, Terminal Connection : IR-CZQT |
| Casing | Aluminum |
| Weight | 0.8kg |

**EXTERNAL DIMENSIONS**

**Connecting cable (connector type): IR-ZZRC**

- **Connecting cable (terminal type): IR-ZCRT**

**Compatible mounting fixture**: IR-ZCZS  
(for compatible installation to IR-CA series)