

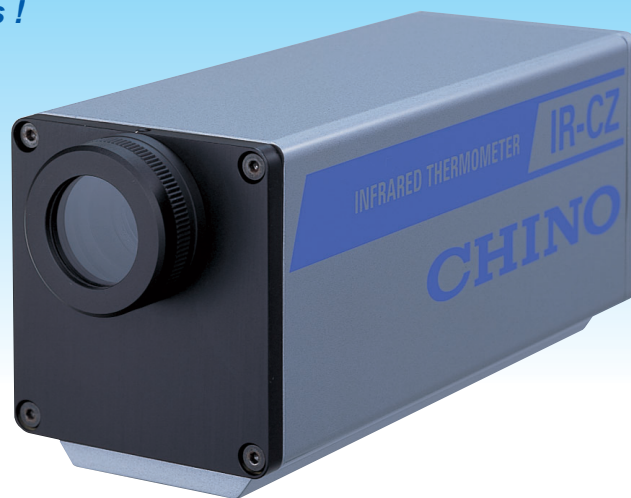
HIGH TEMPERATURE TYPE RADIATION THERMOMETER IR-CZQH series



IR-CZQH

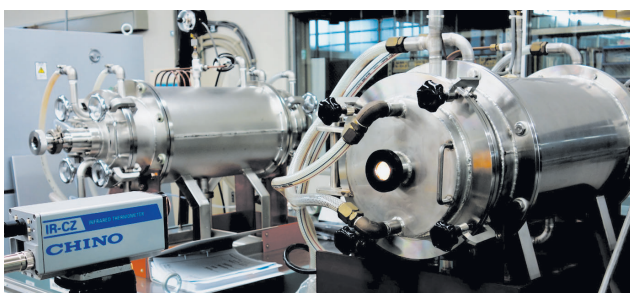
HIGH ACCURACY 2-COLOR TYPE RADIATION THERMOMETER FOR HIGH TEMPERATURE MEASUREMENT

*For measurement of inside the high temperature furnace
Best for Baking and Sintering process of cutting-edge material !
Best for Crystal growing process !*



MODELS

IR-CZQH7 Connection type
N : Connector
T : Terminal



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

IR-GZ

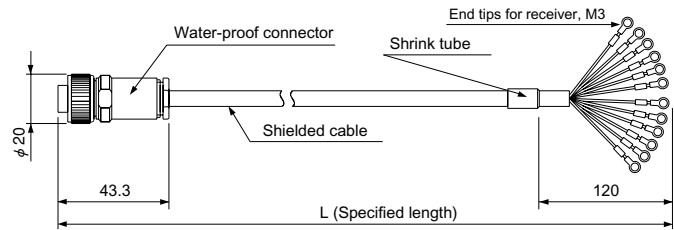
FEATURES

- Stability and durability is improved to continuous ultra-high temperature measurement.
- Achieved high accuracy by calibration of metal/carbon eutectic point traced of which Japan's first high temperature fixed point.
- 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.

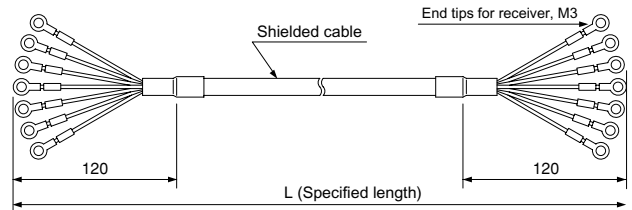
GENERAL SPECIFICATIONS

Models	IR-CZQH
Optics	Moveable focusing lens type
Element	Si / InGaAs
Measuring wavelength	0.9 / 1.55 μ m
Measuring range	900 to 3500°C (from 500°C at single color mode)
Accuracy rating	Lower than 1000°C... $\pm 5^\circ$ C 1000°C to lower than 1500°C... $\pm 0.5\%$ of measured value 1500°C to lower than 2500°C... $\pm 0.6\%$ of measured value 2500°C or/and higher... $\pm 1\%$ of measured value
Response time	2 to 15ms
Effective diameter of lens	$\phi 10$ mm
Distance factor (L/D)	200
Display	Temperature display LCD 4 digits, parameter display LCD 4 digits
Analog output	4 to 20mA DC (isolated output) Load resistance 850 Ω or/and lower
Communication interface	RS485 measured data transmission, and each parameter transmission/reception
Contact output (available at connector type only)	1 point, upper/lower alarm or error signal, photo coupler Maximum 30V 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-CZQH7N Terminal connection : IR-CZQH7T
Casing	Aluminum
Weight	0.8kg

● Connecting cable (connector type): IR-ZZRC□□□

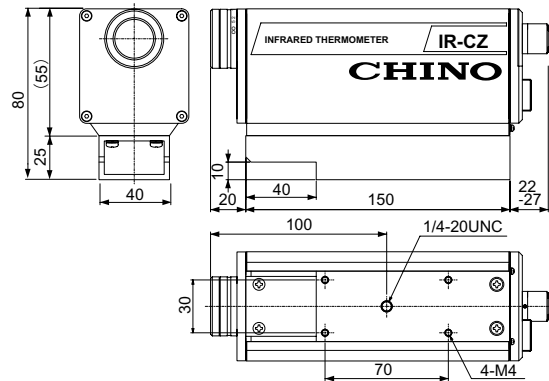


● Connecting cable (terminal type): IR-ZCRT□□□



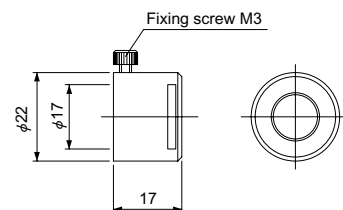
L (Specified length)
 002 : 2m
 005 : 5m
 010 : 10m
 020 : 20m
 100 : 100m

● Compatible mounting fixture : IR-ZCZ S (for compatible installation to IR-CA series)



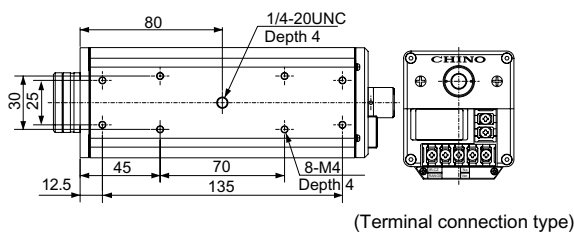
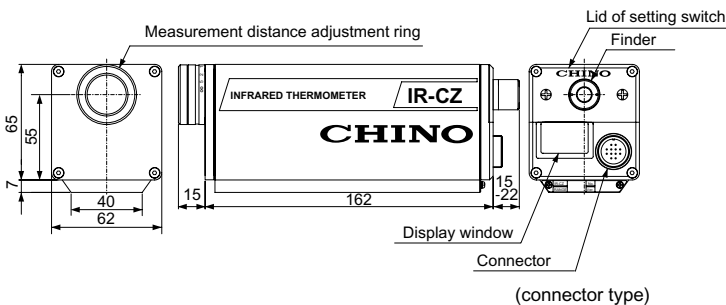
● Eyepiece filter : IR-ZCLF

Neutral density filter to be attached and used with eyepiece when operator feel dazzling for high temperature of measuring object



Unit: mm

EXTERNAL DIMENSIONS



Specifications subject to change without notice. Printed in Japan (I) 2016. 11

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