



An ISO 9001:2015 Company

INDUSTRIAL INTRINSICALLY SAFE TWO IN ONE RING LASER INFRARED THERMOMETER MODEL- IRL 8 Ex

THINK SAFETY
THINK **KUSAM-MECO**

The IRL 8 Ex intrinsically safe industrial grade two in one ring laser infrared thermometer. It has a double injection molding casing, IP54 waterproof and dustproof, and can adapt to harsh industrial infrared temperature measurement environments. It is easy to use, has a solid design, high measurement accuracy, and a wide temperature measurement range. It has laser aiming, a backlight display, maximum and minimum values, data retention, high and low temperature alarms, adjustable emissivity, and automatic shutdown function. This handheld infrared thermometer can be used to test the surface temperature of objects that traditional contact infrared thermometers find difficult to measure.

In addition, it can also be used in conjunction with various applications such as OA office systems, inspection and positioning systems, and data collection systems. Especially suitable for harsh environments with hazardous explosions, such as petroleum, chemical, pharmaceutical, oil depots, tank areas, and other hazardous areas with flammable and explosive gases, facilitating timely communication between users and production and scheduling.

Ex-Marking : Ex ib IIC T4 Gb/Ex ib IIIC T130°C Db

Certificate No.: CCRI 23.7627

Protection Grade: IP54

FEATURE

- Quick measurement function, response time less than 150 milliseconds
- Non contact precise temperature measurement
- Built in circular laser sight
- Unique flat design and modern shell design
- IP54 waterproof and dustproof design
- 1 meter drop test
- Automatically record readings
- Adjustable emissivity, 0.1~1.0. Different emissivity can be selected based on different targets
- Maximum/minimum/difference/mean temperature display
- LCD display screen with backlight
- Automatic range selection and resolution of 0.1 °C (0.1 °F)
- Setting of high and low temperature alarm with red backlight
- K-type temperature measurement

NEW



Preliminary Data

All Specifications are subject to change without prior notice.

AUTHENTICATION PARAMETERS	
Ex-Marking	Ex ib IIC T4 Gb/Ex ib IIIC T130°C Db
Certificate No.	CCRI 23.7627
Protection Grade	IP54
ELECTRICAL SPECIFICATION :	
Infrared Temperature Range	-50.0°C ~ 1000.0°C/(-58.0 ~ 1832.0)°F
D:S	20:01
Resolution	0.1°C (0.1°F) < 1000
	1°F > 1000
Error	Up to ± 1.5%
Laser Type	Circular laser
°C or °F Optional	
Data Retention	
Automatic Shutdown	
Excessive Backlight and Sound and Light Alarm	
MAX, MIN, DIF, AVG Display	
Accuracy	Target Object
The Ambient Operating temperature is Measured at 23.0 °C ~ 25.0 °C/(73.0 ~ 77.0) °F	
-50.0°C ~ 20.0°C/(-58.0 ~ 68.0)°F	± 0.5°C
20.1°C ~ 300.0°C/(68.1 ~ 572.0)°F	± 2.0% ± 2.0°C
300.1°C ~ 1000.0°C/(572.1 ~ 1832.0)°F	± 2.0%
Repeatability	Target Object
-50.0°C ~ 20.0°C(-31.0 ~ 68.0)°F	± 1.8°C(3.2°F)
20.1°C ~ 1000.0°C(68.1 ~ 1832.0)°F	± 0.5% ± 0.5°C(0.9°F)
Response Time	150ms
Spectral Response	8 ~ 14µm
Emissivity	Adjustable resolution from 0.1 to 1.0 (in steps of 0.01)
Laser Aiming	< 1mW 650nm laser level II
K-Type Temperature	-50 to 1370 °C
Over Range Prompt	The LCD display shows "--"
Polarity Display	Automatic (no positive display); (-) indicates the negative electrode
Diode Laser	Output<1mW, 630-670nm Class2 (II) laser product
Operating Temperature	0.0 ° C ~ 50.0 ° C/(32.0 ~ 122.0) ° F
Storage Temperature	-10.0 ° C ~ 60.0 ° C/(14.0 ~ 140.0) ° F
Relative Humidity	10% -90% RH (operation), < 80% RH (storage)
Source	Two No. 7 batteries, rated voltage 3VDC
Dimensions	Approx. 170 × 50 × 95mm
Weight	Approx. 248g

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