

Dorland Industrial Intrinsically Safe Two In One Ring Laser Infrared Thermometer EX-DT60

Dorland System Control Technology Co., Ltd. has recently launched the EX-DT60 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

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

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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



Authentication parameters	
Ex-Marking	Ex ib IIC T4 Gb/Ex ib IIIC T130°C Db
Certificate No.	CCRI 23.7627
Protection Grade	IP54
Technology Parameter	
Product Feature	<p>Quick measurement function, response time less than 150 milliseconds</p> <p>Non contact precise temperature measurement</p> <p>Built in circular laser sight</p> <p>Unique flat design and modern shell design</p> <p>IP54 waterproof and dustproof design</p> <p>1 meter drop test</p> <p>Automatically record readings</p> <p>Adjustable emissivity, 0.1~1.0. Different emissivity can be selected based on different targets</p> <p>Maximum/minimum/difference/mean temperature display</p> <p>LCD display screen with backlight</p> <p>Automatic range selection and resolution of 0.1 °C (0.1 °F)</p> <p>Setting of high and low temperature alarm with red backlight</p> <p>K-type temperature measurement</p>
Size	170*50*95mm
Weight	248g
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	Support
Data retention	Support
Automatic shutdown	Support
Excessive backlight and sound and light alarm	Support
MAX, MIN, DIF, AVG display	Support

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	



CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 23.7627

Applicant Company: Beijing Dorland System Control Tech Co.,Ltd.
Address: Room1107,Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Beijing, P.R.China
Name of Product: Intrinsically safe infrared thermometer
Type of Product: EX-DT60
Marking: Ex ib II C T4 Gb/Ex ib III C T130 °C Db
Technical Documents: Q/DLM 009-2023
Drawing No.: ZZ01
Note(s):
1. The rated voltage is DC 3V, and the power is supplied by a battery pack consisting of two No. 7 dry batteries connected in series.
2. Operating environment temperature: $0\text{ }^{\circ}\text{C} \leq T_a \leq +50\text{ }^{\circ}\text{C}$.
3. IP code: IP54.
4. Correlation test report number: 202355907.

By verifying the drawings and technical documents and checking samples, the product complies with the following standards currently valid in P.R.China:

GB/T 3836.1-2021, GB/T 3836.4-2021, GB/T 4208-2017

Date of Issue: 1. 23. 2024

Valid till: 1. 22. 2029

Authorize:



Coal Science (Beijing) Test Technology Co., Ltd.

(Beijing Test Center of Mine Working Equipment and Mining Oils for National Safe Production)

Note: This certificate is only valid for the products that are in accord with samples tested and verified.

Address: Building 6, No.5, Yulong Street, Caiyu Town, Beijing Economic and Technological Development Area(Daxing), Beijing Tel/fax: 010-89268018

The query url of Explosion-proof Certificate: <http://www.cerite.com.cn/Home>