Beijing Dorland System Control Technology Co., Ltd.
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DORLAND
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Dorland Industrial Intrinsically Safe Ring Laser Infrared Thermometer EX-DT80

Dorland System Control Technology Co., Ltd. has recently launched the intrinsically safe industrial grade ring laser infrared thermometer EX-DT80, with a dual injection molding casing, 1-meter anti drop, and the ability to adapt to harsh industrial infrared temperature measurement environments.

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℃ Db

Certificate No.: CCRI 23.7628

Protection Grade: IP54

Double injection molding machine casing

1 meter anti drop

2.0% measurement accuracy

Adjustable emissivity

Super bright white backlight display

Quick measurement function

Accurate non-contact measurement

Dual laser aiming

Dual injection molding machine casing, unique shape, modern shell design

Automatic data retention

MAX/MIN function

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Authentication parameters	
Ex-Marking	Ex ib IIC T4 Gb/Ex ib IIIC T130℃ Db
Certificate No.	CCRI 23.7628
Protection Grade	IP54
Technology Parameter	
Product Feature	Double injection molding machine casing 1 meter anti drop 2.0% measurement accuracy Adjustable emissivity Super bright white backlight display Quick measurement function Accurate non-contact measurement Dual laser aiming Dual injection molding machine casing, unique shape, modern shell design Automatic data retention MAX/MIN function
Size	165*45*85mm
Weight	163g
Infrared Temperature Range	-50.0℃~380.0℃/(-58.0~716.0)℉
D:S	20:01
Resolution	0.1℃(0.1℉)
Error	±2.0%
Repeatability	±0.5%
Laser type	Circular laser
℃ or ℉ 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℃~25.0 ℃/(73.0~77.0)℉	
-50.0℃~20.0℃/(-58.0~68.0)℉	±0.5℃
20.1℃~300.0℃/(68.1~572.0)℉	±2.0%±2.0℃
300.1℃~380.0℃/(572.1~716.0)℉	±2.0%
Repeatability	**Target Object**
-50.0℃~20.0℃(-31.0~68.0)℉	±1.8℃(3.2℉)
20.1℃~380.0℃(68.1~716.0)℉	±0.5%±0.5℃(0.9℉)

spectral response	8-14 μ M
response time	<1 second

Emissivity	Adjustable resolution from 0.1 to 1.0
Laser aiming	<1mW 650nm laser level II
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℃~50.0 ℃/(32.0~122.0) ℉
Storage temperature	-10.0℃~60.0℃/(14.0~140.0) ℉
source	9V dry battery
Battery usage time	About 20 hours
Automatic shutdown	About 10 seconds



CCRITC

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 23.7628

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-DT80

Marking: Ex ib ⅡC T4 Gb/Ex ib ⅢC T130℃ Db

Technical Documents: Q/DLM 010-2023

Drawing No.: ZZ01

Note(s):
1.Rated voltage DC 9V, powered by a single 6F22 dry battery.
2.Operating environment temperature: 0 ℃ ≤ Ta ≤+50 ℃.
3.IP code:IP54.
4.Correlation test report number:202355908.

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.ccritc.com.cn/Home