

DORLAND Intrinsically Safe Explosion-proof Digital Clamp Meter Clamp Meter DT95 EX

Dorland System Control Tech Co., Ltd. has recently launched the Intrinsically Safe Explosion-proof Digital Clamp Meter-Clamp Meter DT95 EX, which can measure up to 1000A DC current and up to 3000A AC current with true effective value clamp. Other functions include AC and DC voltage, resistance, continuity, capacitance, frequency, duty cycle, temperature, and diode testing. The built-in flashlight and non-contact AC voltage detector provide more convenience. Bluetooth communication allows reading to be displayed and stored on mobile devices.

In addition, it is also suitable for outdoor construction, pipeline inspection, etc, and can be used in conjunction with various applications such as OA office systems, data collection systems, etc, 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.

IP Grade: IP20

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

Certificate No.: SYEx25.01128



Dorland System
Control Tech Co., Ltd.

Room1107, Tower B, Tsinghua Tongfang Technology
Square, No.1 Wangzhuang Road, Haidian District,
Beijing, P.R.China


Tel: +86-10-62198496
Tel: +86-10-62164681

www.dorland-tech.com
tian@dorland.com.cn

DORLAND
www.dorland-tech.com



ADD: Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China.

Product Certificates		
Ex-Marking	Ex ib IIC T4 Gb / Ex ib IIIC T130°C Db	
Certificate No.	SYEx25.01128	
IP Grade	IP20	
Specification Parameters		
Clamp Size	About 48mm	
Display	50000 bit counter backlit LCD	
Flexible Coil	140 x 180mm	
continuity Check	Smell value 50Q; test current<0.5mA	
Diode Test	The typical value of the test current is 0.3mA; the open circuit voltage is less than 28VDC	
Low Battery Level Indicator	Display '  '	
Over range indication	Display 'OL'	
Measurement rate	2 readings per second, nominal value	
peak value	Capture peak value>1ms	
Temperature sensor	K type thermocouple	
Input impedance	10M Ω (DC voltage and AC voltage)	
Communication bandwidth	50Hz~400Hz (AC current and AC voltage)	
ac response	True RMS (AC current and AC voltage)	
crest factor	3.0 within the range of 40A and 400A, and 1.4 within the range of 1000A (50/60Hz and 5% to 100% of the range)	
operation temperature	5°C~40°C	
Storage temperature	-20°C~60°C	
Working humidity	Up to 80% to 31 ° C, linearly decreasing to 50% at 40 ° C	
Storage Humidity	<80%	
Working altitude	2000 meters	
battery	One 9V battery	
Automatic shutdown	About 30 minutes later	
size	230*76*40mm	
weight	315g	
Function	Range	Accuracy
DC	1000ADC	±(2.5%+5)

www.dorand-tech.com

ACA RMs (50Hz~1000Hz)	3000AAC (optional Flexible coil)	±(2.5%+5)
	1000AAC	
All AC current ranges are from 5% of the specified range to 100% of the range		
DC Voltage	500.0mVDC	±(0.1%+4)
	5.000VDC	
	50.00VDC	
	500.0VDC	
	1000VDC	±(0.2%+5)
AC voltage RMs (50Hz~1000Hz)	400.0mVDC	±(1.0%+9)
	4.000VDC	
	40.00VDC	
	400.0VDC	
	750.0VDC	
All AC voltage ranges are from 5% of the specified range to 100% of the range		
Resistance	400.0Ω	±(1.0%+9)
	4.000KΩ	±(1.0%+4)
	40.00KΩ	
	400.0KΩ	
	4.000MΩ	±(2.0%+9)
	40.00MΩ	±(3.0%+9)
Capacitance	500.0nF	±(3.5%+40)
	5.000μF	±(3.5%+9)
	50.00μF	
	500.0μF	
	5.000mF	±(5.0%+9)
Frequency	50.00Hz	±(0.3%+2)
	500.0Hz	
	5.000KHz	
	50.00KHz	
	500.0KHz	
	5.000MHz	
	50.00MHz	
Sensitivity: minimum 0.8V rms. @Duty cycle of 20% to 80% and<100KHz; Minimum 5V rms at 20% to 80% duty cycle and>100KHz.		

Duty Cycle	5.0%~95.0%	±(1.0%+2)
Pulse broadband: 100 μs~100ms, frequency: 10Hz~100KHz.		

Temperature	-100°C ~ 1000°C	±(1.0%+2°C)
	-148°F ~ 1832°F	±(1.0%+3.6°F)
(Excluding probe accuracy)		



Explosion-proof electrical apparatus



Conformity certificate of Explosion-proof

Certificate No. SYEx25.01128

Manufacturer	Beijing Dorland System Control Technology Co. Ltd.	
Address	A1, 10th Floor, Building 2, Yard 1, Wangzhuang Road, Haidian District, Beijing	
Factory	Beijing Dorland System Control Technology Co. Ltd.	
Address	A1, 10th Floor, Building 2, Yard 1, Wangzhuang Road, Haidian District, Beijing	
Name of product	Intrinsically safe explosion-proof digital clamp meter	
Type specification	Clamp Meter DT95 EX	
Ex-marking	Ex ib IIC T4 Gb; Ex ib IIIC T130°C Db	
Product standards	Q/DLM 001-2025 Drawing No. BZ01	
Note	1. The product is powered by a single 1604S 6F22 9V battery, and the battery and current limiting device are encapsulated in one.	
	2. It is strictly forbidden to disassemble or replace the battery in hazardous areas.	
	3. Nominal voltage: 9V.	

According to the above examination of product designs drawings and technical documents, and sample inspection, it has been confirmed that the following standards are met:

GB/T 3836.1-2021	Explosive atmospheres-Part 1: Equipment-General requirements
GB/T 3836.4-2021	Explosive atmospheres-Part 4: Equipment protection by intrinsic safety

Approved by

Date of issue 2025-06-12

Valid date 2030-06-11

Machinery Industry Product Quality Supervisory and Test Center of
Low-voltage Explosion-proof Electrical Product
Shenyang Electrical Driving Research Institute (Co., Ltd)

Address: No.10 Chaojiashan Road, Yuhang District, Shenyang, P.R.China
Tel: 024-25833215 25833649-8033 25831461

Query URL: www.fbdqby.com

Postcodes: 110141

Fax: 024-25316883

E-mail: sy_ex@ina.com

Note: This certificate is valid only for products which are in agreement with the review and approval documents and samples.

