

United Kingdom

# IECEx Certificate of Conformity

	IEC Certification Sys	ECTROTECHNICAL COMMISSION stem for Explosive Atmospheres of the IECEx Scheme visit www.iecex.com	
Certificate No.:	IECEx SIR 19.0048X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2020-05-26		
Applicant:	Dandong Top Electronics Instrume No.10 Huanghai Street, Zhenxing Dist 118000 China	<b>nt (Group) Co., Ltd.</b> trict, Dandong City, Liaoning Province,	
Equipment:	MLT Series Magnetostrictive Level	Transmitter	
Optional accessory	:		
Type of Protection:	Flameproof "db" and Intrinsic Safe	ty "ia"	
Marking:	Ex db IIC T3T6 Gb Ex ia IIC T5/T4 Ga Ta = -40°C to 70°C for Ex ia Ta = -40°C to 60°C/70°C/80°C for Ex i	db	
Approved for issue Certification Body:	on behalf of the IECEx	Neil Jones	
Position:		Certification Manager	
Signature: (for printed version)			
Date:			
2. This certificate is	and schedule may only be reproduced in t s not transferable and remains the proper authenticity of this certificate may be veri	full. rty of the issuing body. fied by visiting <u>www.iecex.com</u> or use of this QR Code.	
Certificate issue	d by:		
SIRA Certificat CSA Group Unit 6, Haward Hawarden, Dee	en Industrial Park	CERTIFICATION	



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Manufacturer:	Dandong Top Electronics Instrument (Group) Co., Ltd. No.10 Huanghai Street, Zhenxing District, Dandong City, Liaon 118000 China	ing Province,
Additional manufacturing locations:		
the IEC Standard list assessed and found t	ed as verification that a sample(s), representative of production, below and that the manufacturer's quality system, relating to the o comply with the IECEx Quality system requirements.This certi s, IECEx 02 and Operational Documents as amended	Ex products covered by this certificate, was
<b>STANDARDS</b> : The equipment and a to comply with the foll	ny acceptable variations to it specified in the schedule of this ce owing standards	rtificate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requiren	nents
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flame	eproof enclosures "d"
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intri	insic safety "i"
	This Certificate <b>does not</b> indicate compliance with safety an other than those expressly included in the Stand	
<b>TEST &amp; ASSESSME</b> A sample(s) of the eq	NT REPORTS: uipment listed has successfully met the examination and test rea	quirements as recorded in:
Test Report:		
GB/SIR/ExTR20.0099	9/00	

Quality Assessment Report:

DE/TUR/QAR13.0005/02



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Issue No: 0

### EQUIPMENT:

Date of issue:

Equipment and systems covered by this Certificate are as follows:

The MLT series Magnetostrictive Level Transmitter is assembled with 0.2 to 3.5m probe rod and a transmitter with 10mm thick glass window for cemented joints. It is designed for two types of protection: Flameproof and Intrinsic safety.

There are two independent flame proof chambers separated by a cemented construction and a thread joint between transmitter and probe rod, there are two cable entries with Spec. M20x1.5 in the transmitter. It should be installed an M20x1.5 certified cable gland, stopping plug or conduit fitting with suitable IP code.

Refer to Annexe for additaional information.

### **Conditions of Manufacure**

The Manufacturer shall comply with the following:

1. All manufactured probe of MLT shall be subjected overpressure routine test with water/gas pressure of more than 1.242MPa. The testing duration is 12s. The enclosure shall not have any permanent deformation or damage invalidating the type of protection or leakage through the walls of the enclosure.

SPECIFIC CONDITIONS OF USE: YES as shown below: Refer to Annexe.

#### Annex:

IECEx SIR 19.0048X Annexe Issue 0.pdf

Annexe to: IECE

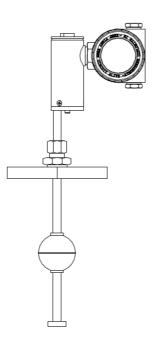
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Applicant: Dandong Top Electronics Instrument (Group) Co., Ltd



Apparatus: MLT Series Magnetostrictive Level Transmitter

EQUIPMENT (continued)



There are eight printed circuit boards in the product: power terminal board, main board, measure module board, power module board, LCD board, fixed board, measure board and sensor board which are designed as intrinsically safe.

The entity parameters for the product are:

Input Parameters	
Terminals: +, -	
Ui	30Vdc
li	93mA
Pi	0.66W
Ci	ΟμF
Li	ΟμΗ

### Specific Conditions of Use

- 1. Install only as per installation control drawing MLTN.ISCD.
- 2. Temperature code depends on process temperature as follows:

For Ex ia:

T-code	Ambient Temperature	Process Temperature
Τ4	-40 to 70°C	-40 to 125°C
T5	-40 to 70°C	-40 to 90°C

For Ex db:

T-code	Ambient Temperature	Process Temperature
Т6	-40 to 60°C	-40 to 75°C
T5	-40 to 70°C	-40 to 90°C
T4	-40 to 80°C	-40 to 125°C
Т3	-40 to 80°C	-40 to 185°C

Sira Certification Service

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Apparatus:	MLT Series Magnetostrictive Level Transmitter
Applicant:	Dandong Top Electronics Instrument (Group) Co., Ltd
Annexe to:	IECEx SIR 19.0048X Issue 0



3. The transmitter enclosure is manufactured from ADC12 aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation.

- 4. The equipment has flameproof joints, which differ from those in IEC 60079-1, when maintaining the flameproof joints, manufacturer shall be contacted for guidance.
- 5. The end user should choose suitable cable in the final installation when ambient temperature is larger than 70°C and process temperature is larger than 90°C, detailed information refers to equipment instructions.