

United Kingdom

# IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com					
Certificate No.:	IECEx SIR 19.0049X	Page 1 of 3	Certificate history:		
Status:	Current	Issue No: 0			
Date of Issue:	2020-05-26				
Applicant:	Dandong Top Electronics Instrument (Group) Co., Ltd. No.10 Huanghai Street, Zhenxing District, Dandong City, Liaoning Province, 118000 China				
Equipment:	Magnetic Level Gauge, model UHC series				
Optional accessory					
Type of Protection:	Flameproof db and Intrinsically Safe ia				
Marking:	Ex db IIC T4T6 Gb Ex ia IIC T5/T6 Ga Ta = -40°C to 60°C for Ex ia Ta = -40°C to 50°C/60°C/70°C for Ex 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 full. s not transferable and remains the property of th authenticity of this certificate may be verified by				
Certificate issue	d by:				
SIRA Certificat CSA Group Unit 6, Haward Hawarden, Dee	en Industrial Park	CERTIFICATION	GROUP"		



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Manufacturer:	Dandong Top Electronics Instrument (Group) Co., Ltd. No.10 Huanghai Street, Zhenxing District, Dandong City, Liaoning Province, 118000 China			
Additional manufacturing locations:				
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended				
STANDARDS : The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards				
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requiren	nents		
IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" Edition:7.0				
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; ASSESSMENT REPORTS:</b> A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:				
Test Report:				
GB/SIR/ExTR20.0097/00				

Quality Assessment Report:

DE/TUR/QAR13.0005/02



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### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The UHC series Magnetic Level Gauge is assembled with a 0.2m to 3.5m probe rod and a transmitter with 8mm 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 thread joints between transmitter and probe, there is only one cable entry with Spec. M20x1.5 in the transmitter. It should be installed with a M20x1.5 certified cable gland, stopping plug or conduit fitting with suitable IP code.

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

The entity parameters for the product are:

 $\label{eq:constraint} \begin{array}{l} \text{Ui} = 30 \text{Vdc} \\ \text{Ii} = 93 \text{mA} \\ \text{Pi} = 0.66 \text{W} \\ \text{Ci} = 0 \mu \text{F} \\ \text{Li} = 0 \mu \text{H} \end{array}$ 

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Install only as per installation instruction.

For other conditions refer to the Annexe

#### Annex:

IECEx SIR 19.0049X Issue 0 Annese.pdf

Annexe to:IECEx SIR 19.0049X Issue 0Applicant:Dandong Top Electronics Instrument<br/>(Group) Co., LtdApparatus:Magnetic Level Gauge, model UHC series



Specific Conditions of Use

For clarity all the Conditions are repeated.

- 1. Install only as per installation instruction.
- 2. Temperature code depends on process temperature as follows:

FOR EX IA:				
T-code	Ambient Temperature	Process Temperature		
T4	-40 to 60°C	-40 to 120°C		
Т5	-40 to 60°C	-40 to 90°C		

For Ex db:				
T-code	Ambient Temperature	Process Temperature		
T6	-40 to 50°C	-40 to 75°C		
T5	-40 to 60°C	-40 to 90°C		
Τ4	-40 to 70°C	-40 to 120°C		

- 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/EN 60079-1, when maintaining the flameproof joints, manufacturer shall be contacted for guidance.
- 5. The end user shall choose suitable cable in the final installation; detailed information refers to equipment instructions.

### Conditions of Manufacture

1. All manufactured probe of UHC shall be subjected to overpressure routine test with water/gas pressure of more than 1.1MPa. 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.