



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx ITS 07.0006X issue No.:1

Status: **Current**

History:  
Issue No. 1 (2007-6-26)  
Issue No. 0 (2007-3-22)

Date of Issue: **2007-06-26** Page 1 of 4

Applicant: **Hawk Measurement Systems Pty Ltd**  
15 - 17 Maurice Cr  
Nunawading  
VIC 3131  
**Australia**

Electrical Apparatus: **ST, TE, TD and Sultan Ultrasonic Transducers**  
Optional accessory:

Type of Protection: **DIP**

Marking: **DIP A20 TA85°C IP68**  
(Tamb -20°C to 75°C)

Approved for issue on behalf of the IECEx Certification Body: **A M Smart**

Position: **Principal Engineer**

Signature:  
(for printed version)

Date:

2007-06-26

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

**Intertek Testing & Certification Ltd**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SB  
United Kingdom

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Manufacturer: **Hawk Measurement Systems Pty Ltd**  
15 - 17 Maurice Cr  
Nunawading  
VIC 3131  
**Australia**

Manufacturing location(s):

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 electrical apparatus 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 61241-1-1 : 1999** Electrical apparatus for use in the presence of combustible dust - Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus  
Edition: 2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

GB/ITS/ExTR07.0010/00

Quality Assessment Report:

GB/ITS/QAR06.0001/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

This range of Hawk Ultrasonic transducers are designed to facilitate the continuous level measurement of solids and liquids in pumps, silos and similar storage vessels. The transducers are fully encapsulated and are enclosed in thermoplastic housings.

Rated voltage: up to 30V

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. For units that are supplied with a permanently connected factory fitted cable. The free end of the cable shall be appropriately connected.
2. SULTAN models including an integral polypropylene compartment containing the amplifier shall be installed with the amplifier compartment outside the silo in the safe area.
3. For installations where a remote transducer is used, component certified DIP conduit and fitting shall be used together with appropriate size adaptors, to terminate the cable.
4. Units supplied with a terminal compartment shall be mounted with the terminal compartment outside the hazardous area.
5. The units shall not be installed when they are subject to direct sunlight.
6. Equipment installed in zone 20 environment should only be fed through a suitably certified intrinsically safe barrier or isolator.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1: Approved for zone 20 environment when used in conjunction with a certified I.S Barrier or isolator.