



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

Certificate No.: **IECEX BAS 06.0038** issue No.:3

Status: **Current**

Date of Issue: **2011-03-24** Page 1 of 4

Certificate history:
Issue No. 3 (2011-3-24)
Issue No. 2 (2010-7-14)
Issue No. 1 (2008-1-10)
Issue No. 0 (2006-7-3)

Applicant: **TC Fluid Control Ltd**
Unit 4 The Interchange
Wested Lane
Swanley
Kent
BR8 8TE
United Kingdom

Electrical Apparatus: **KMS-2 Magnetostrictive Transmitter**
Optional accessory:

Type of Protection: **Intrinsic Safety, ia**

Marking: **IECEX BAS 06.0038**
Ex ia IIC
See schedule for list of T Classes and associated ambient temperature ranges

Approved for issue on behalf of the IECEx R S Sinclair
Certification Body:

Position: Managing Director

Signature:
(for printed version)

Date:

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](http://www.iecex.com).

Certificate issued by:

Baseefa
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **TC Fluid Control Ltd**
Unit 4 The Interchange
Wested Lane
Swanley
Kent
BR8 8TE
United Kingdom

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 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
IEC 60079-26 : 2004 Edition: 1	Electrical apparatus for explosive gas atmospheres - Part 26: Construction, test and marking of Group II Zone 0 electrical apparatus

*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/BAS/ExTR06.0055/00
GB/BAS/ExTR06.0056/00
GB/BAS/ExTR07.0164/00
GB/BAS/ExTR11.0055/00

Quality Assessment Report:

GB/BAS/QAR06.0052/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The KMS-2 Magnetostrictive Transmitter is designed to sense the position of an external magnetic field from either a float fitted inside a Magnetic Level Gauge or a float fitted around the sensing tube, and provide a loop output current proportional to its position.

The transmitter comprises a tubular probe up to 6m long containing the sense and return wires, fitted at one end is an adaptor housing containing the sensor wire pickup and associated amplifier. Electrical connections are made through the adaptor to the main PCB enclosure containing the remainder of the electronics, optional LCD display and user terminals.

Electrical connections are made to the transmitter by means of screw clamp terminals situated within the main enclosure. The cable enters the main enclosure by means of a suitable cable gland.

User Terminals

$U_i = 28V$ $I_i = 93mA$ $P_i = 0.65W$ $C_i = 0$ $L_i = 30\mu H$

T2: $-50^{\circ}C \leq T_a \leq +60^{\circ}C$ (Maximum process temperature of $250^{\circ}C$)

T3: $-50^{\circ}C \leq T_a \leq +60^{\circ}C$ (Maximum process temperature of $195^{\circ}C$)

T4: $-50^{\circ}C \leq T_a \leq +60^{\circ}C$ (Maximum process temperature of $130^{\circ}C$)

T5: $-50^{\circ}C \leq T_a \leq +60^{\circ}C$ (Maximum process temperature of $95^{\circ}C$)

T6: $-50^{\circ}C \leq T_a \leq +40^{\circ}C$ (Maximum process temperature of $80^{\circ}C$)

CONDITIONS OF CERTIFICATION: NO





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

Variation 3.1

To permit minor electrical and enclosure modifications that do not affect intrinsic safety.

ExTR: **GB/BAS/ExTR11.0055/00**

File Reference: **11/0078**