



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 06.0090X issue No.:2

Status: **Current**

Certificate history:
Issue No. 2 (2011-9-1)
Issue No. 1 (2009-3-24)
Issue No. 0 (2007-4-12)

Date of Issue: 2011-09-01 Page 1 of 4

Applicant: **Michell Instruments Limited**
Unit 48
Lancaster Way Business Park
Ely
Cambridgeshire
CB6 3NW
United Kingdom

Electrical Apparatus: **Easidew I.S. Dewpoint Transmitter**
Optional accessory:


Type of Protection: **Intrinsic Safety**

Marking: **IECEX BAS 06.0090X**
Ex ia IIC T4 (-20°C ≤ Ta ≤ +70°C)

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

Position: Managing Director

Signature:
(for printed version)



1-9-11

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: **Michell Instruments Limited**
Unit 48
Lancaster Way Business Park
Ely
Cambridgeshire
CB6 3NW
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 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-11 : 1999 Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
Edition: 4

*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/ExTR06.0148/00](#)

[GB/BAS/ExTR09.0032/00](#)

[GB/BAS/ExTR11.0177/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0018/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Easidew I.S. Dewpoint Transmitter is a 4-20 mA output loop-powered dewpoint sensor.

The apparatus comprises two PCBs housed in a small metal enclosure, a humidity sensor that extends from the metal enclosure and a 4-way plug and socket. The enclosure screws into a pipe or vessel so that the humidity sensor is in the medium to be measured. The 4-way plug and socket contains two 4-20 mA loop connections, one RS485/earth connection and one RS485 connection

The 4-20 mA loop connection may be made to terminals 1 & 3 only:

$U_i = 28V$

$I_i = 93mA$

$P_i = 651mW$

$C_i = 37nF$

$L_i = 0$

CONDITIONS OF CERTIFICATION: YES as shown below:

The wiring connections to the Easidew I.S. Dewpoint Transmitter free socket must be made via crimped connectors in such a way that all the strands of the wire used are held securely by the crimp.

The Easidew I.S. Dewpoint Transmitter plastic plug and socket create a potential for electrostatic discharge so must not be rubbed with a dry cloth or cleaned with solvents.

The Easidew I.S. Dewpoint Transmitter does not withstand the 500Vac insulation test to frame and this must be taken into account on installation.



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

Variation 2.1

To permit an increase in the upper ambient temperature. The ambient temperature range is now -20°C to +70°C

ExTR: GB/BAS/ExTR11.0177/00

File Reference: 11/0475