



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa07ATEX0235**

4 Equipment or Protective System: **Model SDT-Ex Intrinsically Safe 4-20mA Dewpoint Transmitter**

5 Manufacturer: **Shaw Moisture Meters**

6 Address: **Rawson Road, Bradford, West Yorkshire, BD1 3SQ**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd., Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report Nos. **GB/BAS/ExTR08.0029/00**
GB/BAS/ExTR08.0030/00

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006 EN 60079-11:2007 EN 61241-0:2006 EN 61241-11:2005

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 1GD Ex ia IIC T4 Ex iaD IIC T4 20 T135°C (-20°C ≤ Ta ≤ +60°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0969**

Project File No. **07/0763**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Baseefa is a trading name of Baseefa (2001) Ltd

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number Baseefa07ATEX0235

15 Description of Equipment or Protective System

The Model SDT-Ex Intrinsically Safe 4-20mA Dewpoint Transmitter is a 3-wire intrinsically safe dew point transmitter used for continuous measurement of trace moisture in industrial gases.

When powered by an approved 12-28Vdc power source the Model SDT-Ex Intrinsically Safe 4-20mA Dewpoint Transmitter will provide a linear 4-20mA signal corresponding to the dew point temperature. The transmitter can be calibrated to output a 4-20mA linear signal for any other moisture engineering unit e.g. parts per million, ppb, g/m³, lb/MMSCF etc.

The Model SDT-Ex comprises a number of printed circuit boards housed within in a stainless steel enclosure. Electrical connections are made via the 4-pole connector.

Input parameters:

U_i	=	28V	C_o	=	0
I_i	=	93.3mA	L_o	=	0
P_i	=	0.66W			

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17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
040701	1 of 1	1	25.04.07	Model SDT-Ex Dewpoint Transmitter General Arrangement
050701	1 & 2	1	29.10.07	Model SDT Ex Plugin Module
050703	1 of 1	1	29.10.07	Model SDT-Ex Plugin Module Critical Parts List
050714	1 of 1	2	02.11.07	Model SDT-Ex Plugin Module Connector Critical Parts List
050715	1 of 1	1	16.05.07	Model SDT Critical Parts List
090701	1 of 1	1	24.09.07	Model SDT-Ex. Main Label