



# 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 INE 06.0002X** Issue No.: **0**

Status: **Current**

Date of Issue: **2006-10-25** Page **1** of **4**

Applicant: **OLDHAM SA**  
Rue Orfila  
ZI EST  
F-62027 ARRAS Cedex  
**France**

Electrical Apparatus: **Gaz Detector - Type BM25 or BM25A**  
*Optional accessory:*

Type of Protection: **"d" and "i"**

Marking: **Ex ia IIC T4 / Ex ia I**  
**or**  
**Ex ia d IIC T4 / Ex ia d I**

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

Bernard PIQUETTE

*Position:*

Certification Deputy 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:

**INERIS**  
Institut National de l'Environnement Industriel  
et des Risques  
BP n2  
Parc Technologique ALATA  
F-60550 Verneuil-En-Halatte  
France



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Manufacturer: **OLDHAM SA**  
Rue Orfila  
ZI EST  
F-62027 ARRAS Cedex  
**France**

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 manufacture'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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2003</b> Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
<b>IEC 60079-11 : 1999</b> Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

*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:

[FR/INE/ExTR06.0002/00](#)

Quality Assessment Report:

[FR/INE/QAR06.0006/00](#)



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## Schedule

**EQUIPMENT:**

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

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



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## Additional information:

The gas detector exists in two types :

- type BM25 when equipped with a 'IS' flammable sensor. The marking is Ex ia IIC T4 /Ex ia I. When the detector receive the MSH\*\*\* ou MSHP\*\*\* Gas Sensor from Status, certified IEC Ex as a component reference IECEX SIR 05.0053U, the marking is Ex ia d IIC T4 /Ex ia d I .
- type BM25A when equipped with a 'd' flameproof sensor from ISC, certified IEC Ex as a component reference SIRA IECEX Ref 02I1285U. The marking is Ex ia d IIC T4 /Ex ia d I . The detector can also receive the MSH\*\*\* ou MSHP\*\*\* Gas Sensor from Status, certified IEC Ex as a component reference IECEX SIR 05.0053U.

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Input / output characteristics for BM25 and BM25A:

- The detector can only be recharged in a non hazardous area. The maximum input characteristics on the charge connector are:  $U_i = 30V$  ;  $I_i = 30A$ .
- The detector can be supplied by two independent intrinsically safe power supply through the trickle charge connector. The maximum input characteristics on trickle charge connector for each IS power supply are:  $U_i = 30V$  ;  $I_i = 160\text{ mA}$ .
- The detector provide two solid state relays outputs through the relay connector. The Input characteristics for each static relay are:  $U_i = 30V$  ;  $I_i = 150\text{ mA}$ .
- The detector provide two digital inputs through the input connector. The output characteristics for each digital output are :  $U_o = 5V$  ;  $I_o = 50\text{ mA}$  ;  $L_o = 8\text{ mH}$  ;  $C_o = 7\text{ }\mu\text{F}$ .