



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

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Issue 0 (2015-03-13)

Status: **Current** Issue No: 1

Date of Issue: 2016-06-22

Applicant: **Sintrol Oy**  
Sintrol Oy  
Ruosilantie 15  
FI-00390 Helsinki  
Finland  
**Finland**

Equipment: **Dust Monitor Dumo EX G or Dumo RF EX G**

Optional accessory:

Type of Protection: **Ex ib mb**

Marking: Ex mb [ib] IIC T6 Gb  
Ex mb [ib] III C T80°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Jenni Hirvelä**

Position:

**Expert**

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**VTT Expert Services Ltd.**  
**Kivimiehentie 4, Espoo**  
**P.O.Box 1001**  
**FI-02044 VTT**  
**Finland**





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Manufacturer: **Sintrol Oy**  
Sintrol Oy  
Ruosilantie 15  
FI-00390 Helsinki  
Finland  
**Finland**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-18:2009** Explosive atmospheres Part 18: Equipment protection by encapsulation "m"  
Edition:3

This Certificate **does not** indicate compliance with 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:

[FI/VTT/ExTR15.0006/01](#)

Quality Assessment Report:

[FI/VTT/QAR13.0001/01](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Dust detector with internal fan to detect dust particles in ambient environment.

The Dumo EX G or Dumo RF EX G Dust monitor is a microprocessor-based, self-adjusting device, equipped with two independent and fully adjustable alarm signals and a 4 – 20 mA output. The dust monitor is designed to measure total suspended particles in ambient air in workplaces. DUMO RF Ex is equipped with Radio frequency communication interface. The marking 'ib' is for protection of the rod sensor and the Rf antenna.

### Electrical data:

U = 24 V DC,

P = 8 W

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

The allowed ambient temperature range is -20 °C ... + 45 °C.

The connections of the permanently connected cable shall be done and shall be protected with external fuses according to the manufacturer's instructions.



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

New alternative compound material has been added. New document versions.