



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 SIR 09.0052** issue No.:3
Status: **Current**
Date of Issue: **2013-05-10** Page 1 of 4

Certificate history:
Issue No. 3 (2013-5-10)
Issue No. 2 (2011-3-30)
Issue No. 1 (2011-2-2)
Issue No. 0 (2010-3-26)

Applicant: **Casella CEL**
Regent House
Wolseley Road
Kempston
Bedford MK42 7JY
United Kingdom

Electrical Apparatus: **Tuff Personal Air Sampler**
Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking: Ex ia I Ma
Ex ia IIB T3 Ga
Ta = -20°C to +41°C

Approved for issue on behalf of the IECEx
Certification Body:

P J Walsh

Position:

Technical Advisor

Signature:
(for printed version)

PJ Walsh

Date:

2013-05-10

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:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **Casella CEL**
Regent House
Wolseley Road
Kempston
Bedford MK42 7JY
United Kingdom

Additional 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 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/SIR/ExTR10.0053/00](#)
[GB/SIR/ExTR13.0135/00](#)

[GB/SIR/ExTR11.0022/00](#)

[GB/SIR/ExTR11.0072/00](#)

Quality Assessment Report:

[GB/SIR/QAR10.0002/00](#)

[GB/SIR/QAR10.0002/01](#)

[GB/SIR/QAR10.0002/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Casella Tuff Pump is a personal air sampling pump typically used to take samples of airborne materials or toxic contaminants. It is a battery-powered self-contained device, within an anti-static enclosure that provides a controlled air flow rate (approximately 0.5 to 5 litre/min) such that a known volume of air is passed through a passive sampling head and filter medium. Materials collected onto the filter substrate can be subjected to mass or chemical analysis in a laboratory in order to establish a worker's exposure to potentially hazardous materials. Sampling pumps are typically worn on the user's belt and are connected to the sampling head via a short length of tube.

The maximum charging voltage and current are 8.0 V and 561 mA respectively from an approved Casella charger. Charging is only permitted when the equipment is in the non-hazardous area.

The Manufacturer shall comply with the following condition of manufacture:

1. The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products

CONDITIONS OF CERTIFICATION: NO



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

Issue 1 – this Issue introduced the following change:	
1	The information shown on the belt clip labels was expanded to include marking also displayed on the battery pack labels. The new labels also show other certification information not ratified by Sira.
Issue 2 – this Issue introduced the following change:	
1	The use of an alternative LCD display, Model Type FG1003201-FENN, manufactured by Future S&T (Shenzhen) Co. Ltd., was permitted.
Issue 3 – this Issue introduced the following change:	
1.	The internal flow sensing method has been modified. These are mechanical changes which involves the fitting of a silicone rubber damper plus a plastic flow sensing element.