

**Australian/New Zealand
Certification Scheme for
EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT
ANZEx Scheme**

Certificate of Conformity

Certificate No.: ANZEx 17.3007

Issue No.: 0

Date of Issue: 2017-10-11

Applicant: Casella (Ideal Industries Ltd)
Regent House
Wolseley Road
Kempston, Bedford MK42 7JY
United Kingdom

Electrical Apparatus: APEX2 Personal Air Sampling Pump

Type of Protection: Intrinsic Safety "ia"

Marking Code: Ex ia I Ma
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -20°C to +45°C

Manufacturer: Casella (Ideal Industries Ltd)
Regent House
Wolseley Road
Kempston, Bedford MK42 7JY
United Kingdom

Manufacturing Location(s): As above

The EPEE certification database located at <http://www.anzex.com.au> shows the validity of this Certificate.

This certificate and schedule shall not be reproduced except in full

	<p>Certificate issued by:</p> <p style="text-align: center;"><i>TestSafe Australia</i> 919 Londonderry Road, Londonderry NSW 2753 Australia Phone: +61 2 4724 4900 Fax: +61 2 4724 4999 http://www.testsafe.com.au</p>	 <p style="text-align: center;">www.jas-anz.org/register</p>
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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1:2008**.*

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: 2011 Explosive atmospheres - Part 0: Equipment – General requirements
IEC 60079-11: 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standard(s) listed above.*

ASSESSMENT & TEST REPORTS:

The equipment listed has successfully met the assessment and test requirements as recorded in:

Test Report No. and Issuing Body: **GB/CML/ExTR 16.0085/00, GB/CML/ExTR 17.0158/00
CML**

Quality Assessment Report No. and Issuing Body: **GB/SIR/QAR 10.0002/06, Sira**

File Reference: **2017/005784**



Debbie Wouters

Signed for and on behalf of issuing body

Acting Quality & Certification Manager

Position

11th October 2017

Date of Issue

**This certificate is not transferable and remains the property of the issuing body
and must be returned in the event of it being revoked or not renewed.**

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Schedule

EQUIPMENT:

The APEX2 Personal Air Sampling Pump is used to take samples of airborne materials or toxic contaminants. It is a portable device usually carried on a human body (attached to clothes). It is a battery operated self-contained device housed within an anti-static enclosure. The pump is designed to provide a stable controlled flow rate of approximately 0.5 to 5 litre/min such that a known volume of air is passed through a passive sampling head and filter medium.

Airborne materials are collected onto a filter substrate and are 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 equipment may only be charged in the safe area with either:

1. APEX2/IS 5L Pump Five way Charger
2. APEX2/IS 5L Pump Single Way Charger

The charger must be supplied from a SELV source with $U_m = 63 \text{ V}$

These chargers have an output of:

$U_m = 14.5 \text{ V}$

$I_{max} = 850 \text{ mA}$

When connected to a USB in the safe area:

$U_m = 5.9 \text{ V}$

$I_{max} = 85 \text{ mA}$

CONDITIONS OF CERTIFICATION:

Nil.

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DOCUMENTS:

Drawing/Document No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
04-209140D/IS	1	APEX2/I.S Case Body G/A	02	2017-04-04
03-209147C/IS	1	APEX2/IS - Battery Pack S/A	02	2017-04-03
93-209148C/IS	1	APEX2/IS 5L Pump Battery Pack PCB CCT Diagram	06	2017-05-23
05-209150B/IS	1	APEX2/IS 5L Pump Battery Pack PCB S/A Parts List	06	2017-05-23
02-209149B/IS	1	APEX2/IS 5L Pump Battery Pack PCB Profile & Drilled	03	2017-05-23
05-209150B/IS	1	APEX2/IS 5L Pump Battery Pack PCB S/A (Layout)	06	2017-05-23
93-209141D/IS	2	APEX2/IS 5L Pump Circuit Diagram (Main PCB Schematic)	05	2017-05-22
05-209143C/IS	2	APEX2/IS 5L Pump Main PCB S/A (Main PCB Parts List)	07	2017-04-03
02-209142C/IS	1	APEX2/IS 5L Pump Main PCB Profile & Drilled	06	2016-11-04
05-209143C/IS	1	APEX2/IS 5L Pump Main PCB S/A (Layout)	07	2017-05-22
93-209144C/IS	1	APEX2/IS 5L Pump Display PCB CCT Diagram	03	2017-04-03
05-209146B/IS	1	APEX2/IS 5L Pump Display PCB S/A (Parts List)	05	2017-04-03
02-209145B/IS	1	APEX2/IS 5L Pump Display PCB Profile & Drilled	02	2016-05-18

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05-209146B/IS	1	APEX2/IS 5L Pump Display PCB S/A (Layout)	05	2017-04-03
04-209152B/IS	1	APEX2/IS – 1- Way Charging Unit G/A	02	2017-08-17
93-209153B/IS	1	APEX2/IS 5L Pump Single Charging Unit Circuit Diagram	03	2017-08-16
05-209155B/IS	1	APEX2/IS 5L Pump Single Charging Unit PCB S/A (Parts List)	02	2017-08-15
02-209154B/IS	1	APEX2/IS 5L Pump Single Charging Unit PCB Prof & Drill	01	2016-05-25
05-209155B/IS	1	APEX2/IS 5L Pump Single Charging Unit PCB S/A (Layout)	02	2017-08-16
04-209156C/IS	1	APEX2/IS – 5-Way Charging Unit G/A	02	2017-08-17
93-209157B/IS	1	APEX2/IS 5L Pump Five Way Charging Unit Circuit Diagram	03	2017-08-16
05-209159C/IS	1	APEX2/IS 5L Pump Five Way Charging Unit PCB S/A (Parts List)	02	2017-08-16
02-209158C/IS	1	APEX2/IS 5L Pump Five Way Charging Unit PCB Prof & Drill	01	2016-05-27
05-209159C/IS	1	APEX2/IS 5L Pump Five Way Charging Unit PCB S/A (Layout)	02	2017-08-16
09-209065B/IS	1	APEX2/IS - Main PCB Potting Frame	01	2016-09-05
09-209151B/IS	1	APEX2/IS - Display PCB Potting Box	01	2016-09-05
13-209161A/IS(ANZEx)	1	APEX2/IS – Information/SN Label (ANZEx)	01	2017-09-07
PS16/IS	1	Apex2 Pump Intrinsically Safe Versions (IS Information Sheet)	02	-

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