



# 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 ExTC 18.0015X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-01-22\)](#)

Status: **Current**

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Date of Issue: **2019-01-22**

Applicant: **Compac Industries Ltd**  
52 Walls Road  
Penrose  
Auckland 1061  
**New Zealand**

Equipment: **Compac C5000 PINPad**

*Optional accessory:*

Type of Protection: **Intrinsic Safety**

Marking:

For PINPad, with optional Card Reader:

Ex ib IIA T4 Gb

-40°C ≤ Tamb ≤ +70°C

For PINPad with HID reader:

[Ex ib Gb] IIA

-40°C ≤ Tamb ≤ +70°C

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

James Bes

*Position:*

Certifying Authority

*Signature:  
(for printed version)*

*Date:*

2019-01-22

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](#).

Certificate issued by:

**Ex Testing and Certification Pty Ltd**  
1/30 Kennington Drive  
Tomago NSW 2322  
Australia



TESTING & CERTIFICATION



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Manufacturer: **Compac Industries Ltd**  
52 Walls Road  
Penrose  
Auckland 1061  
**New Zealand**

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 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 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-0 : 2017</b> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	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 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:

[AU/EXTC/ExTR18.0013/00](#)

Quality Assessment Report:

[AU/TSA/QAR08.0008/06](#)



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## Schedule

### EQUIPMENT:

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

The C5000 PINPad comprises a main PCB with circuit components on one side of the PCB and an LCD panel on the other side and provides an interface for user input via a membrane keypad and an optional card reader or HID reader (latter for safe area use only).

The C5000 PINPad has a polycarbonate front cover and a metallic rear cover. When installed, the PINPad is secured to a metallic panel with a cut-out to provide viewing the LCD screen. This option is intended to be installed in the hazardous area.

The C5000 PINPad may also be provided in its own steel enclosure of dimensions approximately 155mm x 170mm x 115mm. The C5000 PINPad Box is fitted with a clear window and a membrane keypad and may also be fitted with a card reader or HID reader mounted on the side of the enclosure. When fitted with a HID reader the C5000 PINPad Box may only be installed in a safe area but connected to intrinsically safe circuits - refer to conditions of use for further details and parameters.

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

Refer to Annexe for details.

### Annex:

[IECEX ExTC 18.0015X Annexe Final.pdf](#)

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## Annexe



Annexe for Certificate No.:

IECEX ExTC 18.0015X

Issue No.:

0

**Description (Cont'd from certificate):**

Refer to certificate

**Conditions of Certification pertaining to Issue 0 of this Certificate:**

- The following input and output parameters for the connectors to external equipment on the C5000 PINPad must be taken into account during interconnection:

<b>Connector J1 (BUS-IN)</b> <small>see Note 1</small>	
<b>5V &amp; RS485</b>	<b>Pins 1, 2 &amp; 6 w.r.t. Pins 3, 4, 5 &amp; 7</b>
U <sub>i</sub>	6 V
I <sub>i</sub>	235 mA
P <sub>i</sub>	1.05 W
L <sub>i</sub>	2 µH
C <sub>i</sub>	8 µF
<b>9V</b>	<b>Pin 8 w.r.t. Pins 3, 4, 5 &amp; 7</b>
U <sub>i</sub>	10 V
I <sub>i</sub>	1 A
P <sub>i</sub>	10 W
L <sub>i</sub>	0 µH
C <sub>i</sub>	0 µF

Note 1: Connector J2 (BUS-OUT) is connected in parallel to J1, and hence have the same parameters with the pin numbers allocated as follows:

Circuit reference	J1 Pin #	J2 Pin #
9V	8	6
5V	2	3
A	6	8
B	1	4
Earth, Screen	3, 4, 5, 7	1, 2, 5, 7, 9, 10

<b>Connector J3</b>	
For connection to membrane keypad (simple apparatus).	
<b>5V Output</b>	<b>Pin 1 w.r.t. Pin 2</b> (all connectors considered in parallel)
U <sub>o</sub>	6 V
I <sub>o</sub>	6 mA
P <sub>o</sub>	8.5 mW
L <sub>o</sub>	2 µH
C <sub>o</sub>	0.3 µF

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## Annexe



**Annexe for Certificate No.:**

**IECEX ExTC 18.0015X**

**Issue No.:**

**0**

2. The C5000 PINPad box with a HID reader installed on the side of the enclosure shall only be installed in a safe area. This version of the C5000 PINPad must be supplied by an intrinsically safe source and the parameters above apply.
3. In order to maintain a degree of protection, IP23,
  - the card reader shall be mounted vertically with the card reader heads at the top
  - the PINPad in a stand-alone enclosure shall be mounted vertically
 Any other mounting configuration is considered to be IP20 only.

**Drawing list pertaining to Issue 0 of this Certificate:**

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
C5K PINPAD (Schematics)	CI506	Sheets 1 to 3 of 6	B	2018-05-11
C5000 PinPad Board (Top Overlay)	CI506	Sheet 4 of 6	B	2018-05-11
C5000 PinPad Board (Top Layer)	CI506	Sheet 5 of 6	B	2018-05-11
C5000 PinPad Board (Bottom Layer)	CI506	Sheet 6 of 6	B	2018-05-11
CP-C5K-PPAD (BOM)	CI506P	2	B	2018-05-11
C5K PINPAD (Schematics)	CI506	Sheets 1 and 3 of 6	C	2018-12-18
C5K PINPAD (Schematics)	CI506	Sheet 2 of 6	C	2018-11-14
C5000 PinPad Board (Top Overlay)	CI506	Sheet 4 of 6	C	2018-12-18
C5000 PinPad Board (Top Layer)	CI506	Sheet 5 of 6	C	2018-12-18
C5000 PinPad Board (Bottom Layer)	CI506	Sheet 6 of 6	C	2018-12-18
CP-C5K-PPAD (BOM)	CI506P	2	C	2018-12-19
C5000 Card-reader (Schematics)	CI519	Sheets 1 and 2 of 5	A	2019-01-07
C5000 Card-reader (Top Overlay)	CI519	Sheet 3 of 5	A	2019-01-07

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## Annexe



**Annexe for Certificate No.:**

**IECEX ExTC 18.0015X**

**Issue No.:**

**0**

Title:	Drawing No.:	Pages	Rev. Level:	Date:
C5000 Card reader (Top Layer)	CI519	Sheet 4 of 5	A	2019-01-07
C5000 Card-reader (Bottom Layer)	CI519	Sheet 5 of 5	A	2019-01-07
Swipe Card PCB (BOM)	CI519-P	1	A	2018-09-10
HID I/F for PINPad (Schematics)	CI522	Sheet 1 of 4	A	2019-01-07
HID I/F for PINPad (Top Overlay)	CI522	Sheet 2 of 4	A	2019-01-07
HID I/F for PINPad (Top Layer)	CI522	Sheet 3 of 4	A	2019-01-07
HID I/F for PINPad (Bottom Layer)	CI522	Sheet 4 of 4	A	2019-01-07
HID I_F (BOM)	CI522P	1	A	2018-10-09
Displays C5K Pinpad Display Assembly	ASM0056D	2	B	2018-12-19
Master C5000 Pinpad Box (C5000 Pinpad Box Assm and reader option)	ASM0061A	2	A	2018-10-12
C5000 Control Unit Labels PINPad & Card reader	AP392	Sheet 8	B	2019-01-14
C5000 Control Unit Labels PINPad Box with optional Card reader or HID reader	AP392	Sheet 9	A	2019-01-21
Installation & Safety Data for C5000 PINPad	AP402	4	A	2019-01-14
PINPad Wiring	AP405	2	B	2018-12-18
Installation & Safety Data for C5000 PINPAD in a box with or without Card reader	AP408	4	A	2019-01-14
Installation & Safety Data for C5000 PINPAD in a box with HID reader	AP409	4	A	2019-01-21