

Australia

## 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

Certificate No.:	IECEx ExTC 17.0009X	Page 1 of s	5 <u>Certificate history:</u>
Status:	Current	Issue No: 7	Issue 0 (2018-06-13)
Date of Issue:	2022-07-12		
Applicant:	<b>Compac Industries Ltd</b> 52 Walls Road Penrose Auckland 1061 <b>New Zealand</b>		
Equipment:	Compac COM50, COM125 a	nd COM250 Meters and C5000 Encoder	
Optional accessory:			
Type of Protection:	Intrinsic Safety 'i'		
Marking:	Ex ib IIA T4 Gb		
	-40°C ≤ Tamb ≤ +70°C		
Approved for issue o Certification Body:	n behalf of the IECEx	Justin Gavranich	
Position:		Certification Authority	
Signature: (for printed version)			
Date: (for printed version)		2022-07-12	
<ol> <li>This certificate and s</li> <li>This certificate is not</li> <li>The Status and auth</li> </ol>	chedule may only be reproduced in ful transferable and remains the property enticity of this certificate may be verifie	II. v of the issuing body. ad by visiting www.iecex.com or use of this QR Code.	
Certificate issued	l by:		
Ex Testing and 0 1/30 Kenningtor Tomago NSW 23	Certification Pty Ltd I Drive 322		EX TESTING & CERTIFICATION

Certificate No.:	IECEx ExTC 17.0009X	Page 2 of 5
Date of issue:	2022-07-12	Issue No: 1
Manufacturer:	Compac Industries Ltd 52 Walls Road Penrose Auckland 1061 New Zealand	
Manufacturing locations:	Compac Industries Ltd 52 Walls Road Penrose Auckland 1061 New Zealand	
This certificate is issue IEC Standard list below found to comply with th Rules, IECEx 02 and 0	ed as verification that a sample(s), representative of production, wa w and that the manufacturer's quality system, relating to the Ex pro he IECEx Quality system requirements.This certificate is granted s Operational Documents as amended	as assessed and tested and found oducts covered by this certificate, v subject to the conditions as set out
<b>STANDARDS</b> : The equipment and an to comply with the follo	ny acceptable variations to it specified in the schedule of this certifi owing standards	icate and the identified documents
IEC 60079-0:2017	Explosive atmospheres - Part 0: Equipment - General requirement	its

to comply with the was assessed and in IECEx Scheme

was found

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i

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 Reports:

AU/EXTC/ExTR17.0012/00

AU/ExTC/ExTR22.0026/00

Quality Assessment Report:

AU/TSA/QAR08.0008/09



Certificate No .: IECEx ExTC 17.0009X

Date of issue:

Page 3 of 5

Issue No: 1

#### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2022-07-12

The Compac Meters COM50, COM125, COM250 and C5000 Encoder are metallic enclosures with an internal encoder board. The COM50 contains a CI180 encoder board using Hall effect sensors on the positive displacement rotary vane shaft. The COM125 and COM250 meters use similar Hall effect sensors mounted on a CI163 encoder board. The C5000 Encoder uses a CI111 Encoder board using optical sensors to sense the position of the rotating shaft.

SPECIFIC CONDITIONS OF USE: YES as shown below: Refer to Annexe for details.



Certificate No.: IECEx ExTC 17.0009X

Page 4 of 5

Date of issue:

2022-07-12

Issue No: 1

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)** Refer to Annexe for details.



### Certificate No.:

IECEx ExTC 17.0009X

Date of issue:

2022-07-12

Page 5 of 5

Issue No: 1

#### Additional information:

Job no: 21084

Annex:

IECEx Certificate Annex Final.pdf



Annexe for Certificate No.:

IECEx ExTC 17.0009X

Issue No.:

1

### **Description:**

As provided in 'Equipment' section of the certificate.

### Specific Conditions of Use pertaining to Issue 0 of this Certificate:

The following parameters must be observed when connecting in an intrinsically safe circuit:

C5000 Encoder with Cl111 board (Pins 2, 4 and 6 wrt pin 1)			
Ui	6 V		
li	235 mA		
Pi	1.1 W		
Li	50 µH		
Ci	135 nF		

COM50 Meter with Cl180 board (Pins 2, 4 and 6 wrt pin 1)				
Ui	6 V			
li	235 mA			
Pi	1.1 W			
Li	50 µH			
Ci	6.2 μF			

COM125/COM250 Meters	with CI163 board (Pins 2, 4 and 6 wrt
pin 1)	
Ui	6 V
li	235 mA
Pi	1.1 W
Li	50 µH
Ci	163 nF

Note that while the Encoder Boards are provided with a 2 metre cable, the parameters above consider cable lengths to the maximum extended length of 50 metres.

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

Manufacturer's Documents					
Title:	Drawing No.:	Pages	Rev. Level:	Date:	
Installation & Safety Data for COM Meters and Encoder	AP398	3	A	2018-06-08	
CI111	•				

This form is identified as QMA-HAE-08-710 Issued 2019-03-15



### Annexe



1

Annexe for Certificate No.:

IECEx ExTC 17.0009X

Issue No.:

Title:	Drawing No.:	Pages	Rev. Level:	Date:
3 CHANNEL ENCODER	CI111	1 of 4	B1	2017-12-11
CI111 ISSUE B				
	CI111	2 of 4	В	2003-05-08
	CI111	3 of 4	В	2003-05-08
	CI111	4 of 4	В	2003-05-08
	CI111P	1	B2	2017-12-12
Rotary Encoder Assembly	SW/107	Sht 8	0	2014-11-10
C5000 Control Unit Labels	AD202	4 of 2		
Optical Encoder	APS92	1015	В	2010-00-00
Cl163		1		
COM 125/250 ENCODER (Circuit	CI163	1	C2	2017-12-11
Schematic)			-	
COM250 Encoder PCB	CI163	2 of 4	С	2003-01-20
(Top Overlay)			-	
COM250 Encoder PCB	CI163	3 of 4	С	2003-01-20
(Top Layer)				
COM250 Encoder PCB	CI163	4 of 4	С	2003-01-20
(Bottom Overlay)				
CP-ENC-CI163	CI163P	1	C3	2017-12-12
(BOM)				
CI180				
COM 50 SMART ENCODER (Circuit	CI180	1 of 4	D1	2017-12-12
Schematic)				
COM50 Smart Encoder PCB	CI180	2 of 4	D	2010-06-28
(Top Overlay)				
COM50 Smart Encoder PCB	CI180	3 of 4	D	2010-06-28
(Top Layer)				
COM50 Smart Encoder PCB	CI180	4 of 4	D	2010-06-28
(Bottom Layer)				
CP-ENC-CI180EW (BOM)	CI180P	1	D1	2017-12-12
Common Drawings for CI163 and CI180				

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1

Annexe for Certificate No.:

IECEx ExTC 17.0009X

Annexe

Issue No.:

Title:	Drawing No.:	Pages	Rev. Level:	Date:
**Electrical Approvals Com Meter Encoder Assembly	SW052	Sheet 07	D	2013-10-22
C5000 Control Unit Labels COM Series Meters	AP392	2 of 3	В	2018-06-08
C5000 Control Unit Labels COM Series Meters with gland	AP392	3 of 3	В	2018-06-08

Note: \*\* Title editorially corrected in issue 1.

#### Variations permitted by Issue 1 of this certificate:

- Equipment assessed to IEC60079-0:2017 and IEC60079-11:2011.
- New alternative housing for the COM50AL, COM125AL and COM250AL meters.

### Specific Conditions of Use pertaining to Issue 1 of this certificate:

The conditions remain unchanged from the prior issue.

#### Drawings Associated with the Issue 1 of this Certificate:

Manufacturer's Documents					
Title:	Drawing No.:	Pages	Rev. Level:	Date:	
Installation & Safety Data for COM Meters and Encoder	AP398	3	В	2021-05-14	
C5000 Control Unit Labels	AP392	1 of 3	С	2021-05-14	
Optical Encoder & COM aluminium bodies					
C5000 Control Unit Labels	AP392	2 of 3	С	2021-05-14	
COM Series Meters					
C5000 Control Unit Labels	AP392	3 of 3	С	2021-05-14	
COM Series Meters with gland					
Com Meters	MAD0220A	1	А	2021-03-24	
COM Meter Encoder Assembly					

This form is identified as QMA-HAE-08-710 Issued 2019-03-15