

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx ITA 08.0004X	Page 1 of 5	
Status:	Current	Issue No: 2	Issue 1 (2015-02-10) Issue 0 (2008-07-07)
Date of Issue:	2021-08-11		
Applicant:	Nautitech Mining Systems Pty Ltd U3 / 9 Packard Avenue Castle Hill NSW 2154 Australia		
Equipment:	Pressure Sensors Type 5001 series		
Optional accessory:			
Type of Protection:	Intrinsic Safety "ia"		
Marking:	Ex ia I / IIB T4 -20°C ≤ Tamb ≤ +90°C/+120°C (see Anne	exe for further details)	
	IECEx ITA 08.0004X		
Approved for issue of Certification Body:	n behalf of the IECEx	Ajay Maira	
Position:		Certification Authority	
Signature: (for printed version)		Ajay Main	
Date:		2021-08-16	
2. This certificate is no	schedule may only be reproduced in full. t transferable and remains the property of the issuing enticity of this certificate may be verified by visiting v	g body. www.iecex.com or use of this QR Code.	
Certificate issued	d by:		
Ex Testing and 1/30 Kennington Tomago NSW 2 Australia	Certification Pty Ltd า Drive 322		TESTING & CERTIFICATION



Certificate No.:	IECEx ITA 08.0004X	Page 2 of 5				
Date of issue:	2021-08-11	Issue No: 2				
Manufacturer:	Nautitech Mining Systems Pty Ltd U3 / 9 Packard Avenue Castle Hill NSW 2154 Australia					
Additional manufacturing locations:						
IEC Standard list belo found to comply with	ed as verification that a sample(s), representative of production, wa w and that the manufacturer's quality system, relating to the Ex pro- the IECEx Quality system requirements. This certificate is granted so Operational Documents as amended	oducts covered by this certificate, was assessed and				
STANDARDS : The equipment and a to comply with the fol	ny acceptable variations to it specified in the schedule of this certifi owing standards	icate and the identified documents, was found				
IEC 60079-0:2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: Gene	eral requirements				
IEC 60079-11:2006 Edition:5	Explosive atmospheres - Part 11: Equipment protection by intrinsi	ic safety "i"				
	This Certificate does not indicate compliance with safety and other than those expressly included in the Standa					
	TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:					
Test Reports:						
AU/ITA/ExTR08.0016	/00 AU/ITA/ExTR15.0005/00					

Quality Assessment Report: AU/MSC/QAR21.0001/00



Certificate No.: **IECEx ITA 08.0004X** Page 3 of 5

Date of issue:

2021-08-11

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Pressure Sensor Type 5001 is designed to provide a 4 to 20 mA signal proportional to the pressure applied to the sensing cell.

The equipment comprises a single printed wiring board containing electronic components including a pressure sensor all encapsulated within a brass enclosure with only the diaphragm of the pressure sensor exposed to the process medium. External connections are made using an integral two core cable.

SPECIFIC CONDITIONS OF USE: YES as shown below: See Annexe for details



Certificate No.: IECEx ITA 08.0004X

Page 4 of 5

Date of issue:

2021-08-11

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) See Annex for details.



Certificate No.: IECEx ITA 08.0004X

Page 5 of 5

Date of issue:

2021-08-11

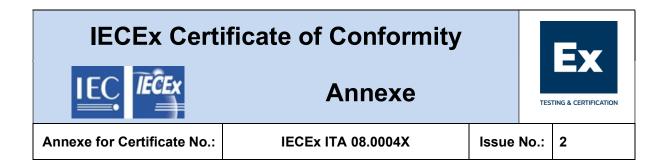
Issue No: 2

Additional information:

Job 21105

Annex:

Certificate Annex IECEx ITA 08.0004X-2 final.pdf



Description:

Provided in the Equipment description section of the certificate

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

1. The following parameters are to be taken into account in the installation.

Group I			Group IIB		
Ui =	16.5	V	Ui =	12	V
Pi =	1.3	W	Pi =	1.3	W
Ci =	4	uF	Ci =	4	uF
Li =	Negligible	mΗ	Li =	Negligible	mΗ

Ambient temperatures up to 90°C.

2. The electrical connections to the integral cable must be housed within a suitable enclosure offering a degree of protection not less than IP20.

Drawing list pertaining to Issue 0 of this Certificate:

Manufacturer's Documents

Title:	Drawing No.:	Pages	Rev. Level:	Date:
High Pressure Sensor	ExMD500101	1	A	2007-06-18
Low Pressure Sensor - Female	ExMD500103	1	A	2007-06-20
Device Markings Sensor Interface Current Based Pressure Sensor	ExMK500101	1	1.0	2007-12-03
Sensor Interface PCB	ExPB118511-02	1	A	2007-06-20
Sensor Interface Schematic	ExPS118511-02	1	А	2007-12-03

IECEx Certificate of Conformity Annexe **TESTING & CERTIFICATION**

Annexe for Certificate No.:

IECEx ITA 08.0004X

Issue No.:

2

Variations permitted by Issue 1 of this certificate:

The manufacturer has made the following changes:

- Addition of high pressure sensor
- Addition of a differential pressure sensor
- Alternate schematic and PCB design to suit the sensors.
- The optional increase in ambient temperature from 90°C to 120°C when the input power (Pi) is reduced from 1.3 W to 0.6 W
- Change in name from Nautitech Manufacturing Systems Pty Ltd to Nautitech Mining Systems Pty Ltd and change in address

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

The following parameters apply for ambient temperatures up to 120°C.

Group I		Group IIB			
Ui =	16.5	V	Ui =	12	V
Pi =	0.6	W	Pi =	0.6	W
Ci =	4	uF	Ci =	4	uF
Li =	Negligible	mΗ	Li =	Negligible	mΗ

Drawings Associated with the Issue 1 of this Certificate:

Manufacturer's Documents

Title:	Drawing No.:	Pages	Rev. Level:	Date:
5001 Series Pressure Sensor Assemblies	ME5001-2-99-198-A	3	5	2015-01-30

Variations permitted by Issue 2 of this certificate:

The manufacturer's Quality Assessment was changed from Ex Testing and • Certification to another IECEx Certification Body, Mine Safety Technology Centre. QAR reference has been changed accordingly.

Specific Conditions of Use pertaining to Issue 2 of this certificate:

There are no changes.

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

IECEx Cert		Ex		
		TING & CERTIFICATION		
Annexe for Certificate No.:	IECEx ITA 08.0004X Issue		No.:	2

Drawings Associated with the Issue 2 of this Certificate:

There are no drawings applicable to this issue of the certificate.