



Manager
Nautitech Mining Systems Pty Ltd
manuel@nautitech.com.au

NOTICE OF REGISTRATION OF PLANT DESIGN (PLANT USED TO DETERMINE OR MONITOR THE PRESENCE OF GAS)

You are notified that the design of the item of plant (used to determine or monitor the presence of gas) detailed below has been registered in accordance with Part 5.3 of the *Work Health and Safety Regulation 2011* and clause 177(1) of the *Work Health and Safety (Mines and Petroleum Sites) Regulation 2014*.

The conditions of registration in the attached Schedule have been imposed. You must comply with the conditions of registration in accordance with section 45 of the *Work Health and Safety Act 2011*.

Name of the registration holder:	Nautitech Mining Systems Pty Ltd ABN 40 094 272 616, ACN 094 272 616
Address of registration holder:	Unit 3/9 Packard Avenue CASTLE HILL NSW 2154
Plant design registration number:	MDR 142798 GD-0a
Date the registration was granted:	11 July 2017
Type of plant design:	Plant used to determine or monitor presence of gas, used in underground coal mines
Description of plant:	Gas detector
Make number (if applicable):	
Model number (if applicable):	CX053
Drawing number:	N/A
Standards specified for the purpose of this design registration	<i>Registration of Design of Plant Used to Determine or Monitor the Presence of Gas Order 2015</i> published in NSW Government Gazette No 52 of 26 June 2015, pages 1852 to 1855

For any enquiries, please phone Mine Safety Registration on (02) 4931 6410 or email minesafety.registration@industry.nsw.gov.au

Dave McLean
Chief Inspector of Mines
Resources Regulator
Signed under delegation from the Secretary, Department of Planning and Environment

Date: 24 August 2017

SCHEDULE – Conditions of registration

1. Detailed description

The Gas Detector has been designed specifically for assessing the concentration of atmospheric methane in mine environments, whilst operating safely in potentially explosive methane rich atmospheres.

It achieves an Ex ia Ma Group I classification for use in potentially explosive atmospheres. The Gas Detector is intended for fixed installation on stationary or mobile plant.

1.1 Specification

Gas Detector Model Number: CX053

Gas Detected	Sensor Description	Range	Output Mode
Methane	Part number 12053-A	0-5%	CANbus with Bluetooth wireless port

Software version 1.0

2. Documents to be provided

The following documents must be provided to each person to whom the design and/or plant used to determine or monitor the presence of gas is supplied.

DOCUMENT No.	ISSUE	DATE	TITLE
12053-A	2	29/05/17	Gas Detector Datasheet
QA-PM-58-02	2	27/06/17	User Manual CX053 Gas Detector
IECEX MSC 13.0005X	1	27/06/17	IECEX Certificate of Conformity
IECEX MSC 13.0005X	1	27/06/17	IECEX Certificate of Conformity Annex

3. Conditions on the registration holder

- 4.1 New plant must not be manufactured, supplied or imported to this design registration after 9 September 2024. This does not prevent ongoing use of existing plant supplied prior to this date.
- 4.2 There must be no alternation(s) in the materials, design or construction of the plant used to determine or monitor the presence of gas from those detailed in the *Notice of Registration of Plant Design (Plant used to Determine or Monitor the Presence of Gas)* and Mine Safety Technology Centre Test Report T14-00007.
- 4.3 The following information must be inscribed on a durable plate fixed in a prominent position on the plant used to determine or monitor the presence of gas:
 - a) design registration number MDR 142798 GD-0a, and
 - b) name of the registration holder.
- 4.4 The registration holder must ensure that each installation of the plant used to determine or monitor the presence of gas is checked to ensure it conforms to the *Notice of Registration of Plant Design (Plant used to Determine or Monitor the Presence of Gas)*.

4. Conditions on 'Limitations on the Use of this Design'

- 4.1 In satisfying your duties under Division 3 of Part 2 of the Work Health and Safety Act 2011, you must include 'Limitations on the Use of this Design' (see 4.2 below). This information

must be given to all people who you provide the design to (including any manufacturer, importer, supplier and any user of the plant used to determine or monitor the presence of gas).

4.2 The 'Limitations on the use of this Design', must include the information below as a minimum:

- a) Prior to being used, each plant used to determine or monitor the presence of gas must be tested for accuracy and calibrated by a test facility in Australia that is accredited by the National Association of Testing Authorities (NATA). The plant must be covered by a NATA endorsed certificate supplied to the underground coal mine.
- b) The plant used to determine or monitor the presence of gas must be maintained in accordance with Australian Standards AS 2290.3-1990 *Electrical equipment for coal mines - Maintenance and overhaul - Maintenance of gas detecting and monitoring equipment*, as amended from time to time.
- c) Any repair that may affect the instrument's explosion protection properties must be carried out by the manufacturer or at a recognised service facility licensed for that purpose under Part 9 of the *Work Health and Safety (Mines) Regulation 2014*.

5. Conditions on the registration holder if they are a person with management or control of the item of plant

5.1 The registration holder and the regulator must be informed when the plant used to determine or monitor the presence of gas does not to comply with the *Notice of Registration of Plant Design (Plant used to Determine or Monitor the Presence of Gas)* or when safety related defects occur.



Dave McLean
Chief Inspector of Mines
Resources Regulator
Signed under delegation from the Secretary, Department of Planning and Environment

Date: 24 August 2017