

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 2017 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 Ave CASTLE HILL NSW 2154		
Plant design registration number:	MDR 141807 GD-2		
Date the registration was granted:	21 December 2018		
Type of plant design:	Plant used to determine or monitor presence of gas, used in underground coal mines		
Description of plant:	Group I Single Gas Detector		
Make number (if applicable):	Methane Master with Integral RapidSense		
Model number (if applicable):	 ME5070-2-99-140: Nautitech flameproof enclosure including an LCD Display with: ME5070-2-0-12-005: I.S CH4 sensor interface board, and; ME5070-2-99-112: NTMS RapidSense CH4 gas sensor housing, and; ME5070-2-04-009: Fitting and connector assembly, including heater element, and; ME5070-2-19-009: RapidSense methane sensor element. 		
Drawing number:	ME5070-2-99-140-A, Rev. 3		
Standards specified for the purpose of this design registration	Registration of Design of Plant Used to Determine or Monitor the Presence of Gas Order 2015 published in NSW Government Gazette No 52 of 26 June 2015, pages 1852 to 1855		

For any enquiries, please phone Mining Authorisation Team on 1300 814 609 or email cau@planning.nsw.gov.au

Gary Parker

Deputy Chief Inspector Mining Engineering

Resources Regulator

Signed under delegation from the Secretary, Department of Planning and Environment

Date: 25 January 2019

DESIGN REGISTRATION HISTORY

Registration	Date	Comment	
MDR 141807 GD-0	24 June 2014	Original issue	
MDR 141807 GD-1	23 October 2017	Software change to 1.02.01 V2	
MDR 141807 GD-2	17 December 2018	Inclusion of Methane Master enclosure and display.	
		New sintered filter (brass or black plastic) and an optional heater circuit.	
		Software change to 2.0.0	
MDR 141807 GD-2	25 January 2019	Minor correction of error in the Output Mode to "CAN bus"	

SCHEDULE - Conditions of registration

1. Detailed description

ME5070-2-99-140: Nautitech flameproof enclosure (Ex d I/IIC T5 Mb Gb), as certified under IECEx ITA 13.0021X including an LCD Display with:

- ME5070-2-0-12-005: I.S CH4 sensor interface board, and;
- ME5070-2-99-112: NTMS RapidSense CH4 gas sensor housing, as certified under IECEx ITA 12.0007X, and;
- ME5070-2-04-009: Fitting and connector assembly, including heater element, and;
- ME5070-2-19-009: 0-5% RapidSense methane sensor element.

Gas Detected	Sensor Description	Range Output Mod	
Methane	ME5070-2-19-009	0-5%	CAN bus

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
PR5070101-A- 03	03	28/09/18	Product Manual – RapidSense Ex ia Stand-alone CH ₄ Gas Sensor

3. Conditions on the registration holder

- 3.1 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 MSTC Instrument Evaluation Report No's. T18-00506/001 V2 and T13-00225 as well as this Notice of Registration of Plant Design (Plant used to Determine or Monitor the Presence of Gas).
- 3.2 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 141807 GD-2, and
 - b) name of the registration holder.
- 3.3 The registration holder must ensure that each item of the plant used to determine or monitor the presence of gas, under MDR 141807 GD-2, which supplied to a NSW underground coal operation is checked to ensure it conforms to this Notice of Registration of Plant Design (Plant used to Determine or Monitor the Presence of Gas).