Registration No MDR 0001541 GD
Reference CERT0003035

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:	MSA (Aust) Pty Limited ABN 97 000 389 837, ACN 000 389 837
Address of registration holder:	11 Columbia Way BAULKHAM HILLS NSW 2513
Plant design registration number:	MDR 0001541 GD
Date the registration was granted:	19 August 2019
Type of plant design:	Plant used to determine or monitor presence of gas, used in underground coal mines
Description of plant:	Portable Hand-Held Multi-Gas Detector
Make:	MSA
Model number (if applicable):	ALTAIR 4XR
Representational Drawing:	Title: ALTAIR 4XR, CSA Drawing Number: SK3098-1360 Revision Number: Rev 0
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

Leigh Nicholls

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

19 August 2019

DESIGN REGISTRATION HISTORY

Registration	Date	Comment
MDR 0001541 GD	19 August 2019	Original issue

SCHEDULE – Conditions of registration

1. Detailed description

The MSA ALTAIR 4XR is a handheld battery-operated multi-gas detector that can measure between 1 and 4 gases using a combination of the following MSA XCell Sensors: one catalytic-bead combustible cell, one oxygen electrochemical cell and one dual toxic electrochemical cell.

GAS DETECTED	RANGE	SENSOR TYPE	PART NUMBER
Methane	0-5%	Catalytic	10121212
Oxygen	0-25%	Electrochemical	10106729
Carbon Monoxide	0-2000ppm	Electrochemical	10106725
Hydrogen Sulphide	0-200ppm		

The performance testing undertaken on the above gases was completed by the Mine Safety Technology Centre with the test results recorded in Instrument Evaluation Report: T18-00144 (12/06/2019). This performance testing was undertaken with software version Rev 2.27.

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
IECEx SIR 16.0096	4	26/04/19	ALTAIR 4XR Multi-Gas Detector IECEx Certificate of Conformity
10175896 EN	03	xx	ALTAIR 4XR Multi-Gas Detector Operating Manual
10175895 EN	05	xx	Addendum A: Standards Compliance Certifications for Altair 4XR

3. Conditions on the registration holder

3.1 There must be no alternation in the materials, design or construction of the plant used to determine or monitor the presence of gas from those detailed in this *Notice of Registration of Plant Design (Plant used to Determine or Monitor the Presence of Gas)* and as detailed in the *Mine Safety Technology Centre Instrument Evaluation Report: T18-00144 (12/06/19)*.

3.2 The following information must be indelibly marked in a prominent position on the plant used to determine or monitor the presence of gas:

a) design registration number MDR 0001541 GD and

b) name of the registration holder.

3.3 The registration holder must ensure that each item of plant used to determine or monitor the presence of gas which it manufactures is checked, at the time of manufacture, to

ensure it conforms to this *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).

b) A copy of a current NATA endorsed calibration certificate must be supplied with the plant if it is to be used in an underground coal mine.

c) The plant used to determine or monitor the presence of gas must be maintained in accordance with Australian Standard *AS/NZS 2290.3:2018 Electrical equipment for coal mines – Introduction, inspection and maintenance – Gas detecting and monitoring equipment*, as amended from time to time.

d) 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 & Petroleum Sites) Regulation 2014*.

5. Conditions on the registration holder

5.1 The registration holder must inform the Regulator if the plant used to determine or monitor the presence of gas is found to not comply with the *Notice of Registration of Plant Design (Plant used to Determine or Monitor the Presence of Gas)* or if any safety related defects occur.