



Issue Date: 07 September 2020
 Expiry Date: 07 September 2023

IA Certificate Number: **MASC S/20-8356X**
 Our ref: **20-8356**

IA – CERTIFICATE

(IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT)

Gas Detector Type NSx-yL III, NSx-yL III LCD, NSx-yL III LCD RE

This document is based on and must be read in conjunction with certificate **FTZÚ 15 ATEX 0022X**.

Further to your request, we have evaluated the supplied documentation.

The following is applicable:

Description	Detail
Requested By :	DEGA CZ s.r.o. Malešická 2850/22c, 130 00 Praha 3, Czech Republick
Equipment :	Gas Detector Type NSx-yL III, NSx-yL III LCD, NSx-yL III LCD RE
Manufacturer :	DEGA CZ s.r.o. K Žižkovu, 9/640, 190 00 Praha 9, Czech Republic
Model(s) / Type(s) :	NSx-yL III, NSx-yL III LCD, NSx-yL III LCD RE
Rating :	Ex d IIB+H2 T6 Gb
Certification body :	FTZÚ
Type Certificate No :	FTZÚ 15 ATEX 0022X
Variations/Issue/Amendment :	0
Quality Assurance report (QAR) / Notification (QAN) :	"It is a requirement under ATEX that all equipment for category 1 and 2 areas must have 3rd party quality assurance from a notified body. This is accepted to cover the equipment's quality requirements."

Standards:	- EN 60079-0 (2012) "General requirements"
	- EN 60079-1 (2007) "Equipment protection by flameproof enclosures 'd'"

This document may only be reproduced in full.
 This certificate is not transferable and remains the property of the issuing body.
 This document will not be supported by MASC for certification purposes outside the borders of South Africa.



IA CERTIFICATE NUMBER: MASC S/20-8356X
Gas Detector Type NSx-yL III, NSx-yL III LCD, NSx-yL III LCD RE

COMPLIANCE:

The equipment as described below is hereby certified "Explosion Protected" Ex d IIB+H2 T6 Gb and is suitable for use in hazardous locations as stated below and as tested, assessed and inspected in accordance with the relevant requirements of SANS / IEC Standards:

The evaluation was conducted according to the requirements of:

- **SANS (IEC) 60079-0 : 2012 "Explosive atmospheres – Part 0: Equipment — General requirements"**
- **SANS (IEC) 60079-1 : 2007 "Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures 'd'"**

Location	Zone 1, 2	Gas Surface
Hazard Frequency	---	Intermitted as could occur under normal operating conditions in hazardous area
Environment	Group IIB+H2	Propane to Ethylene and Hydrogen
Surface Temperature	T6	85°C

Service/Ambient Temperature: -40°C to +60°C

The use of apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- i. SANS 10086 requirements;
- ii. Any conditions mentioned in the above document;
- iii. Codes of Practice enforced in terms of Regulations 21.17.2 of Minerals Act, by Chief Inspector of Mines;
- iv. Any restrictions and conditions enforced by Chief Inspectors of Mines, Principal Inspector (Group I equipment) of Chief Inspector of Factories (Group II equipment);
- v. Any relevant requirements of the MHS Act or the OHS Act.

DESCRIPTION OF EQUIPMENT (According to UL Certificate):

The gas detector type NSx-yL III, NSx-yL III LCD and NSx-yL III LCD RE consists of cover and enclosure bottom made by aluminium alloy. Enclosure is equipped with electronic circuits. Stainless steel sensing head with sinter is screw in to the enclosure. Enclosure and head are protected by type of protection "d" - flameproof enclosure. The enclosure is alternatively equipped with a sight glass for display.

An enclosure is equipped with two M20 x 1.5 threaded holes for installation of appropriate certified Ex equipment cable glands.

The measuring function according to annex II paragraph 1.5.5 of the directive 94/9/EC is not matter of this EC-Type Examination.

/. Technical...

This document may only be reproduced in full.
This certificate is not transferable and remains the property of the issuing body.
This document will not be supported by MASC for certification purposes outside the borders of South Africa.

IA CERTIFICATE NUMBER: MASC S/20-8356X
Gas Detector Type NSx-yL III, NSx-yL III LCD, NSx-yL III LCD RE

Page 4 of 4

The routine tests for production units according to the Certificate must be complied with (if applicable).

Yours faithfully



D.P Visser
TECHNICAL SPECIALIST



Charl Welthagen
TECHNICAL SPECIALIST

Mining And Surface Certification

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment is representative and accurately performed, and that a report is accurate in the quoted results and conclusions drawn from the test / assessment, MASC or its members/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report issued pursuant to a test / assessment.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and routine tests have been successfully completed and the product complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practises.

This document may only be reproduced in full.

This certificate is not transferable and remains the property of the issuing body.

This document will not be supported by MASC for certification purposes outside the borders of South Africa.