



Mining And Surface Certification CC

CC 2008/202081/23



Certificate Number: MASC M/15-0133X
Issued: 01 March 2015
Expired: 16 February 2018
Page: 1 of 3

IA – CERTIFICATE

(Supplementary One: To amend warning marking)
(Review required as per ARP0108)

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

Ex – Type Examination Certificate number:	MASC M/15-0133X
Equipment:	TX6355 Sentro Wireless
Serial No:	All units must be covered by a valid batch report / accepted product certification mark.
Applicant:	Trolex Limited.
Address:	Hazel Grove Stockport Cheshire SK7 5DY United Kingdom
Manufacturer:	Trolex Limited.
Address:	Hazel Grove Stockport Cheshire SK7 5DY United Kingdom

DESCRIPTION:

The TX6355 Sentro Wireless is designed for use in underground gassy mines to provide air monitoring in a fixed location. Power to the unit is by an IS battery module mounted to the gas detector enclosure.

The plug-in gas sensing eModules associated with this equipment are covered as part of this evaluation (see user manual).

MARKING:

Trolex Limited
TX6355 Sentro Wireless
Ex Rating: Ex ia I
I.A. No: MASC M/15-0133X

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 M/15-0133X

TX6355 Sentro Wireless
(Supplementary One)
(INTRINSIC SAFETY)

Page 2 of 3

WARNING: Only Energizer EN95/E95 D-type alkaline batteries may be used.

COMPLIANCE:

The unit as described above and in report number MASC 15-0133 is hereby certified "Explosion Protected", Ex ia I (-20°C to 40°C), 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 Standards:

SANS 60079 "Electrical apparatus for explosive gas atmospheres"

-Part 0: 2005 "General requirements" and

-Part 11: 2007 "Equipment protection by intrinsic safety "I"".

Location	Zone 0 and 1	Gas/ Coal dust: Underground
Hazard Frequency	---	Continuous as could occur under normal operating conditions in hazardous area
Environment	Group I	Methane and coal dust
Limiting Temperature		450°C (Methane gas) / 150°C (Coal dust)
Ambient Temperature	-20°C to 40°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 report;
- 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.

SPECIAL CONDITIONS OF SAFE USE (X)

- The Sentro Wireless may only be used with Energizer EN95/E95 D-type batteries.
- Outputs #1 and #2 (P5596.01-M sheet 3 of 4) on the Sentro Wireless configuration must be evaluated for intrinsic safety in its final configuration when connected to other devices or equipment.

CONDITIONS OF MANUFACTURE

- None.

CONDITIONS OF CERTIFICATION:

1. This Certificate covers all units sold from the date of this Certificate to 15 February 2018.
2. This Certificate of approval only covers the equipment as certified above and does not include any scheduled additions or variations/amendments/new issues to the certificate(s), made after the above date.
3. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by MSHA and in this approval.

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.

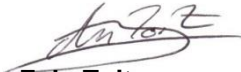
IA CERTIFICATE NUMBER: MASC M/15-0133X

TX6355 Sentro Wireless
(Supplementary One)
(INTRINSIC SAFETY)

Page 3 of 3

4. The MSHA certification must remain valid.
5. The bearing of the requirements in the ARP 0108 (or regulations) and SANS 10108 on the certification of the equipment must remain unchanged.
6. The Ex quality assurance notification for the equipment must remain valid.

According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory.)



F du Toit
TECHNICAL SPECIALIST

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.*

Mining And Surface Certification

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.

Mining And Surface Certification CC Reg No: 2008/202081/23
Members: Roelof Viljoen & Francoius du Toit
Unit #5, Lelyta Park, 45 Jurg Avenue, Hennospark Ext 87, Centurion, 0157 ♦ P.O. Box 14344, Clubview, 0014
Tell: 012 653 2959 ♦ Fax: 086 605 8568
e-mail: info@masc-ex.co.za
