



Certificate Number: MASC M/18-1294X

Issue: 05 June 2018

Expire: 05 June 2028

Page: 1 of 3

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

Ex – Type Examination

Certificate number:

MASC M

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Mining and Surface Certification (Pty) Ltd Reg No: 2015/021934/07
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IA CERTIFICATE NUMBER: MASC M/18-1294X

Kutta MFT43 Medium Frequency Radio
(Intrinsic Safety)

Page 2 of 3

COMPLIANCE:

The unit / system as described above and in MASC report 18-1294 is hereby certified "Explosion Protected" Ex ia I Ma and is suitable for use in hazardous locations as stated below and as tested, assessed and inspected in accordance with the relevant requirements of SABS Standards:

The evaluation was conducted according to the requirements of:

IEC/SANS 60079 "Electrical Apparatus for Explosive Gas Atmospheres"

- Part 0: 2012 "General Requirements"
- Part 11: 2012 "Equipment Protected by Intrinsic Safety 'i' "

Location	Zone 0 & 1	Mining: Underground
Hazard Frequency	---	Continuous as could occur under normal operating conditions in hazardous area
Environment	Group I	Methane / Coal dust
Limiting Temperature	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.

CONDITIONS OF CERTIFICATION:

CONDITIONS OF MANUFACTURE:

- All PCBs in the main unit must be encapsulated to at least 1mm to free air.
- The RF power must be limited to 500mW for Group I application.

SPECIAL CONDITIONS OF SAFE USE (X):

- The unit must be fully contained in a non-metallic, non-static pouch in hazardous area.
- A Static hazard may exist. Only wipe with a damp cloth

***/.* According...**

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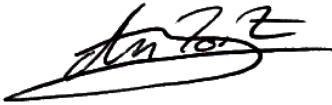
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Page 3 of 3

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.)

Approved on behalf of MASC



F du Toit
TECHNICAL SPECIALIST



D.P Visser
TECHNICAL SPECIALIST

Mining And Surface Certification

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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.

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