

Certificate of Conformity

Ex EQUIPMENT

Certificate No.:	ANZEx 23.2002X	Current Issue:	0	Date of Issue:	2023-12-04
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Applicant: **i.safe MOBILE GmbH**
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
GERMANY

Equipment: IS-TC1x.M1 Intrinsically safe, rugged Thermal Camera

Type of Explosion Protection: Intrinsic Safety "i"

Explosion Protection Marking: Ex ia I Ma
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db

*This certificate is granted subject to the requirements as set out in
Joint Accreditation System of Australia and New Zealand Publications
ANZEx System Rules 2020 & ANZEx Certified Equipment Scheme Rules 2021*

Signed for and on behalf of issuing body

Name & Position


.....
Geoff Barnier
Principal Engineer - Certification
.....

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

The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

Safety in Mines, Testing and Research Station
2 Robert Smith Street, REDBANK QLD 4301

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Manufacturer : i.safe MOBILE GmbH
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
GERMANY

**Additional
Manufacturing
Location(s):** None

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0:2017 Ed 7.0 Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-11:2011 Ed 6.0 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

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Schedule

Equipment Description:

The IS-TC1x.M1 has been designed for the use in mines susceptible to firedamp. In combination with mobile communication devices, the multifunctional set enables quick and easy recording and display of temperatures. Variants of the IS-TC1x.M1 are listed in document 1067AD05, IS-TC1x.M1 variant identification.

Electrical Ratings/Parameters

The supply and interface connection of the IS-TC1x.M1 is carried out via the ISM interface of the compatible communication devices. The IS-TC1x.M1 is certified in combination with the IS530.M1 (refer ANZEx 20.2002X) or other mobile devices that comply with the connection parameters in accordance with document 1048AD04, IS-TC1x.1 Entity parameters.

Specific Conditions of Use:

1. The 13-pin connector of the IS-TC1x.M1 may only be assembled or disassembled from the ISM interface outside hazardous areas.
2. The device must be protected from impacts with high impact energy, against excessive UV light emission and high electrostatic charging processes.
3. The device shall be protected from the exposure to oils, greases and hydraulic fluids.
4. The permitted ambient temperature range is -20 °C to +55 °C.

Conditions of Certification:

None

Additional Information:

None

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Register of Issues and Variations

includes the current issue

Issue 0 dated 2023-12-04

Original issue.

Standards relevant for this issue:

IEC 60079-0:2017 Ed 7.0 Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-11:2011 Ed 6.0 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: DE/EPS/ExTR22.0003/00; Bureau Veritas

QAR No. & Issuing CB: DE/EPS/QAR12.0003/15; Bureau Veritas

File Reference: 230005Cert

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
1067AD01	2	IS-TC1x.M1 List of Documents	00	2022-06-29
1067AD02	4	IS-TC1x.M1 ATEX+IECEx Description	00	2022-06-23
1067AD03	8	IS-TC1x.M1 Safety Instructions	00	2022-06-29
1048AD02	18	IS-TC1x.1 ATEX + IECEx Description	01	2021-10-27
1048AD04	4	IS-TC1x.1 Entity parameters	00	2021-09-22
1067AD05	2	IS-TC1x.M1 variant identification	00	2022-06-29
1048AG01	3	IS-TC1x.1 in combination with IS530.1	01	2021-10-26
1029AD04	7	IS530.x and IS330.x Entity parameters ISM interface	06	2021-02-05
1048BP07	3	IS-TC1x.1 BOM	01	2021-10-26
1048BS21	1	IS-TC1x.1 Overview	01	2021-10-26
1048BS07	1	Mainboard	02	2021-10-26
1048BN07	1	Mainboard Layout Top	02	2021-10-11
1048BN07	1	Mainboard Layout Layer2	02	2021-10-11
1048BN07	1	Mainboard Layout Layer3	02	2021-10-11
1048BN07	1	Mainboard Layout Bottom	02	2021-10-11
1048BQ07	1	Mainboard Assembly Top	02	2021-10-11
1048BR07	1	Mainboard Assembly Bottom	02	2021-10-11
1067DG01	6	IS-TC1x.M1 Parts and Materials	00	2022-06-29
1067DM02REV01	1	IS-TC1x.M1+GD+ANZEx Front label	01	2023-11-22

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Document Number	Pages / Sheets	Document Title	Revision	Date
1067MM01REV01	9	IS-TC1A.M1 (model MTC1A01) Operating Manual Safety Instructions	01	2023-11-23