MTEx
Ontploffingvoorkomingstegnologie
Explosion Prevention Technologies

MTEx Laboratories

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INSPECTION AUTHORITY (IA) CERTIFICATE

BARTEC Safety (Pty) Ltd.
P.O. Box 58071
Newville
2114

Issued: 2024/08/27
Expire: 2027/08/27
Revision: 0
Job File: 2711

Applicant:

BARTEC SAFETY (PTY) LTD.

For validity purposes, the following marking must be added to all equipment covered by this certificate:

IA Number:	MTEx-S/24.0374 X
Manufacturer:	BARTEC GmbH
Supplier:	BARTEC Safety (Pty) Ltd.
Equipment:	ComEx Control and Indicating Station
Model/Type:	07-352*-**********
Ex Rating:	07-3521-…, 07-3522-… and 07-3523-… Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db 07-3524-…, 07-3525-… and 07-3526-… Ex db ia IIC T6 Gb
Serial No:	All units imported between the issue and expiry dates of this Certificate.

Standards used:

SANS 60079-0: 2019 Ed.6 **IEC 60079-0: 2017 Ed.7**	**Explosive atmospheres – Part 0: General requirements.**
SANS 60079-1: 2015 Ed.5 **IEC 60079-1: 2014 Ed.7**	**Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d".**
SANS 60079-11: 2012 Ed.4 **IEC 60079-11: 2011 Ed.6**	**Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i".**
SANS 60079-31: 2014 Ed.2 **IEC 60079-31: 2013 Ed.2**	**Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'.**
SANS 60079-7: 2023 Ed.4.01 **IEC 60079-7: 2017 Ed.5.1**	**Explosive atmospheres - Part 7: Equipment protection by increased safety "e".**

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

Reviewed By + Signature (TL):	A. van Niekerk	
Approved By + Signature (CB): (MTEx Laboratories Technical Signatory)	D. Young	

mineral resources Department: Mineral Resources REPUBLIC OF SOUTH AFRICA AIA Number: E1
employment & labour Department: Employment and Labour REPUBLIC OF SOUTH AFRICA AIA Number: CL016

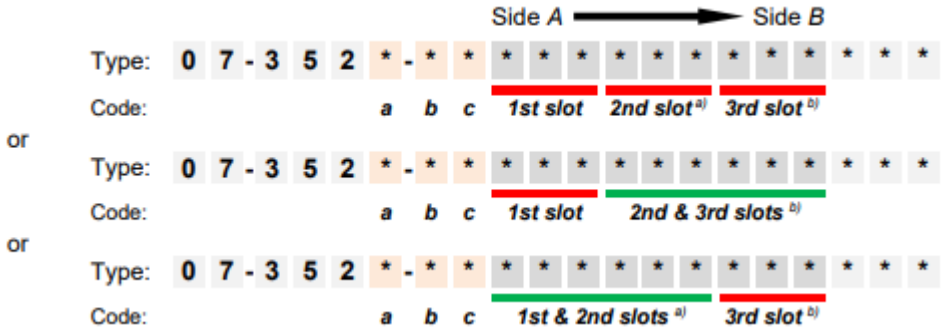
MTEx Laboratories is an Accredited Test Laboratory (ATL) in terms of the ARP 0108: "Regulatory Requirements for Explosion-Protected Apparatus".

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(3) of the Occupational Health and Safety Act, provided that the apparatus is used as prescribed in accordance with the following **Notes**:

1) Compliance with any conditions set out in this Certificate.
2) This certificate only covers equipment imported between the "Issued" and "Expiry" dates of this certificate.
3) When the supporting Q.A.N. (Quality Assurance Notification) of the equipment manufacturer expires, it is the responsibility of the applicant (as mentioned above) to submit a valid Q.A.N to MTEx Laboratories.
4) It is the responsibility of the supplier to ensure that the marking label complies with the requirements of the relevant regulator.
5) Once issued, the certificate remains valid for the serviceable lifecycle of the device. The state of the device is validated by visual or close inspections, by the end user, at intervals not exceeding two years.

1. OVERVIEW

The equipment is either single, double or triple control and/or indicating display stations. The three standard plastic enclosures, single (07-3521-*& 07-3524-*), double (07-3522-* & 07-3525-*) and triple (07-3523-* & 07-3526-*) can be combined with various separately certified actuators, switch modules and luminous modules.



a	Enclosure size, certification, operation mode 1 – Single, ATEX/IECEx, non-intrinsically safe 2 – Double, ATEX/IECEx, non-intrinsically safe 3 – Triple, ATEX/IECEx, non-intrinsically safe 4 – Single, ATEX/IECEx, intrinsically safe 5 – Double, ATEX/IECEx, intrinsically safe 6 – Triple, ATEX/IECEx, intrinsically safe
b resp. c	Entry device, enclosure side **B** resp. **A** 0 – Without 1 – Side **B**: 1 x M20, plastic or hole for connection Side **A**: 1 x M20, plastic 2 – 1 x M25, plastic 3 – 2 x M20, plastic 4 – 1 x M20, plastic and 1 x M20 blanking element, plastic 5 – 1 x M20, metal 6 – 1 x M25, metal 7 – 2 x M20, metal 8 – Side **B**: not applicable Side **A**: enclosure connection 9 – Special version A – Conduit adapter ½" NPT c) B – Conduit adapter ¾" NPT c) C – 1 x M16, plastic D – 2 x M16, plastic E – 3 x M16, plastic

F – 1 x M32, plastic
G – 1 x M20, plastic and 1 x M25, plastic
H – 1 x M16, plastic and 1 x M25, plastic
J – 1 x M20, metal, special version
K – 1 x M25, metal, special version
L – 2 x M20, metal, special version

1st, 2nd & 3rd slot	Single-slot actuators & modules combinations
1st & 2nd slots or 2nd & 3rd slots	Double-slot actuators & modules combinations

1st & 2nd slots or 2nd & 3rd slots – double-slot actuators & modules combinations

* * * * * *	Actuator	Module
G * * * * *	Selector switch for control module type 07-3400-G***/****	Control switch module type 07-3332-1***/****
F * * 1 * *	Selector switch large type 07-3400-F***/****	Switch module type 07-3322-1100/****
F * * 2 * *		Switch module type 07-3322-1200/****
F * * 4 * *		Switch module type 07-3322-1400/****
F * * 5 * *		Switch module type 07-3322-1110/****
F * * 6 * *		Switch module type 07-3322-1210/****
F * * 7 * *		Switch module type 07-3322-1410/****
A * * V * *	Push button type 07-3400-A***/****	Switch module type 07-3382-****/****
E * * V * *	Key selector switch type 07-3400-E***/****	
F * * V * *	Selector switch large type 07-3400-F***/****	
N * * V * *	Emergency stop pull to release type 07-3400-N***/****	
P * * V * *	Mushroom push button type 07-3400-P***/****	
S * * V * *	Selector switch type 07-3400-S***/****	

1st, 2nd and 3rd slot – single-slot actuators & modules combinations

* * *	Actuator	Module
0 * 0	without actuator	without module
B * 0	Blind plug type 07-3400-B***/****	
A * *	Push button type 07-3400-A***/****	Switch module type 07-3322-1**0/****
C * *	Double push button type 07-3400-C***/****	
E * *	Key selector switch type 07-3400-E***/****	
N * *	Emergency stop pull to release type 07-3400-N***/****	
P * *	Mushroom push button type 07-3400-P***/****	
R * *	Emergency stop twist to release type 07-3400-R***/****	
S * *	Selector switch type 07-3400-S***/****	
D * *	Potentiometer type 07-3400-D***/****	Potentiometer module type 07-3372-1D*0/**** d)
L * *	Pilot light type 07-3400-L***/****	Illuminated indicator module type 07-3352-11*0/**** d) or type 07-3352-14*0/**** c)
T * A	Illuminated push button type 07-3400-T***/****	Illuminated push button module type 07-3362-17*0/**** d) or type 07-3362-15*0/**** c)
T * B		Illuminated push button module type 07-3362-18*0/**** d) or type 07-3362-16*0/**** c)
T * C		Illuminated push button module type 07-3362-11*0/**** d)
T * D		Illuminated push button module type 07-3362-12*0/**** d)

* - manufacturer and customer specific suffixes (number or letter) without influence on the explosion protection

[a] Only for type 07-352, followed by 2, 3, 5 or 6, followed by additional suffixes.
[b] Only for type 07-352, followed by 3 or 6, followed by additional suffixes.
[c] Only for type 07-352, followed by 4, 5 or 6, followed by additional suffixes.
[d] Only for type 07-352, followed by 1, 2 or 3, followed by additional suffixes.

2. REASON FOR REVIEW

Revision 0: ARP 0108 requirement (Initial IA Certificate).

3. DOCUMENTATION PROVIDED

- EU-Type Examination Certificate (CML 21 ATEX 31165 X, Issue 0).
- IECEx Certificate of Conformity (IECEx CML 21.0132X, Issue 0).
- IEC Quality Assessment Report (DE/TUN/QAR06.0017/15).

4. ELECTRICAL / SAFETY PARAMETERS

None.

5. INSTALLATION INSTRUCTIONS

The instructions provided with the product shall be followed in detail to assure safe operation.

6. CONDITIONS OF MANUFACTURE

- Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- All safety critical Ex Components must be installed in accordance with their schedule of limitations.
- The manufacturer shall ensure that the user is provided with the entity parameters of all intrinsically safe modules supplied as part of the equipment.

7. CONDITIONS OF CERTIFICATE (X)

- The ComEx control and indicating station shall be installed, so it will be protected against electrostatic charging. The metal entry devices shall be grounded.
- The technical data of separately certified cable glands and blanking element acc. to manufacturer specifications shall be observed.
- The wiring internal to equipment which might come into contact with a conductive part shall be mechanically protected, secured, or routed to avoid insulation damage.
- The connection cables shall have a minimum service temperature below or equal to the minimum ambient temperature for the ComEx control and indicating station and a maximum service temperature above or equal to 80 °C.
- The maximum permissible currents must not exceed the values according to the arrangement tables corresponding maximum ambient temperatures and the configurations of the ComEx control and indicating station.
- Each terminal of the module is limited to one conductor per clamping unit.

- The values Uo, Io, Co and Lo of an approved Intrinsically Safe Apparatus connected to the ComEx control and indicating station must not exceed the permissible maximum values specified in IEC/SANS 60079-11 / IEC/SANS 60079-11 and IEC/SANS 60079-25 / IEC/SANS 60079-25, if applicable, for the zone(s) and group(s) of the corresponding hazardous areas of the location of the ComEx control and indicating station.
- The wiring internal to the equipment shall be carried out in such a way that a distance between the bare conducting parts of a cable lug mounted on the feed-through terminal for earthing and any other terminals is at least 10 mm.
- The ComEx control and indicating station type 07-3521-..., 07-3522-... or 07-3523-... must not be connected with a sleeve fixing to the ComEx control and indicating station type 07-3524-..., 07-3525-... or 07-3526-... equipped with conduit adapters
- The minimum ambient temperature for the ComEx control and indicating station shall be above or equal to the minimum ambient temperature for the separately certified cable glands and blanking elements, but above or equal to -55 °C. The maximum ambient temperature for the ComEx control and indicating station shall be below or equal to 40 °C resp. 60 °C.
- The intrinsically safe circuits are galvanically isolated from each other in accordance with IEC / SANS 60079-11.
- The user shall ensure that all wiring to intrinsically safe modules is installed in accordance with the requirements of IEC / SANS 60079-14 Clause 16.

MTEx Laboratories

Note(s): This document may not be reproduced except in full.
MTEx Laboratories takes no responsibility for any non-conforming tests / assessments / results which is not in compliance with the relative Standards. By marking the equipment as mentioned in the documentation, the manufacturer takes full responsibility that the equipment has indeed complied with the original type assessment and has been subjected to any routine verification(s) / test(s) respectively.

End of Report