

Rea No: 1999/027771/07

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GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

04 Mar 2019 Date Issued: *Expiry date: 04 Mar 2029 Page 1 of 3

Ex – Type Examination Certificate

Certificate Number: MS-XPL/18.1262 X Equipment: Tag reader batons

Model / Type: EX and MR

Magtouch Electronics Applicant:

PO Box 13561 Northmead

1511

Manufacturer: **Magtouch Electronics**

Serial No: All serial numbers of equipment covered by a valid report or acceptable

product certification mark.

Supplied by Magtouch Electronics

Identified by Inspection Authority number

MS-XPL/18.1262 X

And as described in the Explolabs file number XPL/20082/18.1262 is hereby certified "Explosion Protected & (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

SANS 60079-0: 2012 Ed 5 IEC 60079-0: 2011 Ed 6

Explosive atmospheres Part 0: Equipment — General requirements

SANS 60079-11: 2012 Ed 4 IEC 60079-11: 2011 Ed 6

Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"

Risk of ignition provided:

TELLOTTEL CENTROLITE	Protection afforded	Equipment Protection Level (EPL) Group	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Very high	Ma Group I	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning when explosive atmosphere present	T150°C
	Very high	Ga Group II		Equipment remains functioning in zones 0, 1 and 2	T4 (135°C)

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

SANS 10086 and IEC/SANS 61241-14 requirements as applicable;

Any conditions mentioned in the above report; Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and

Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health

A revision certificate replaces all previous version of the certificate.

* - Only covers equipment Imported between the "Issued" and "Expire" dates.

If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd





The South African National Accreditation System (SANAS) is a member of the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). This Arrangement allows for the mutual recognition of technical test and calibration data by the member accreditation bodies worldwide. For more information on the Arrangement please

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ANNEX TO CERTIFICATE NO MS-XPL/18.1262 X

1. GENERAL

The marking of the Tag reader batons shall include the following:

Ex ia I/IIC T4 Ma/Ga

The tag reader batons has been designed and constructed by Magtouch. There are two models, namely, model EX is a 190mm long cylindrical baton and model MR is a 100mm long cylindrical baton. Both models have the same functionality, the only difference other than size, is the power supplies. The larger baton, model EX, is supplied by 2xAA Alkaline cells connected in series to form a 3.3V battery. The smaller baton, model MR, is supplied by a CR 2032 coin cell.

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Both tag reader batons contain 1 identical PC board. The board is multi-layered and has red solder mask applied.

Both models of the tag reader were made from 305 stainless steel and the treaded entries are sealed with 272 Loctite. The front of each baton has a brass plate which is used to read the tag. At the ends of each baton there is a clear epoxy filled hole that allows the user to visually see if the tag reader has registered the required tag.

Electrical Rating

EX ratings : V = 3.3V; I = 60mAMR ratings : V = 3.7V; I = 472mA

2. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

3. SPECIAL CONDITIONS FOR SAFE USE (denoted by "X" after certificate number)

- Loctite 272 must be thoroughly applied on all threads.
- Batteries/cells may not be replaced by the user.
- The information from the tag reader baton may only be downloaded in a safe area.

4. SCHEDULE OF LIMITATIONS (denoted by "U" after certificate number) None.

5. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

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ANNEX TO CERTIFICATE NO MS-XPL/18.1262 X

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6. MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Magtouch Electronics
Manufacturer : Magtouch Electronics
Equipment : Tag reader batons
Model/Type : EX and MR

Serial No. : ---

Ex Rating : Ex ia I/IIC T4 Ma/Ga IA Certificate No : MS-XPL/18.1262 X

Tested by: Technical Signatory:

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S La Cock
Testing Officer
EXPLOLABS EXPLOSION PREVENTION SERVICES

D Maree Technical Signatory

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