

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.

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 = 60mA

MR 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.

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:



**S La Cock
Testing Officer**

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Technical Signatory:



**D Maree
Technical Signatory**

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