1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

3	EU - Type Examination Certificate Number:	**Baseefa19ATEX0151X – Issue 1**
4	Product:	**MPEX Range of Magnetic Pickups**
5	Manufacturer:	**Logitech Electronics Limited**
6	Address:	**Lane End, Church Aston, Newport, Shropshire, TF10 9JJ**

7 This re-issued certificate extends EU Type Examination Certificate No. **Baseefa19ATEX0151X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See certificate history**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0: 2018 EN 60079-11: 2012

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

Ex II 1G Ex ia IIC T6…T3 Ga

SGS Fimko Oy Customer Reference No. **7900** Project File No. **21/0137**

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13 # Schedule

14 ## Certificate Number Baseefa19ATEX0151X – Issue 1

15 Description of Product

The MPEX range of magnetic pickups consists of a wire coil with a ferrous pole piece and a PCB assembly. The equipment is housed in a metal enclosure and the PCB is fully encapsulated.

The equipment has a range of different coil options and two different PCB options depending on the size and shape of the enclosure. A number of variants of the enclosure are available.

The equipment utilises the intrinsic safety concept of protection and has input parameters:

		With no attached cable	With up to 50m of cable
Ui = 30V		Ci = 0	Ci = 22nF
Ii = 160mA		Li = 0	Li = 34µH
Pi = 0.75W			

The MPEX magnetic pickups generate and internal voltage depending on the speed of the target object passing the pole piece. The maximum voltage output is internally limited by safety components to be no greater than 4.97V

The ambient temperature ranges depend on temperature class and series as follows:

MPEXS Series

T6 -40°C ≤ Ta ≤ +49°C
T5 -40°C ≤ Ta ≤ +64°C
T4 -40°C ≤ Ta ≤ +99°C
T3 -40°C ≤ Ta ≤ +120°C

MPEXLS Series

T6 -20°C ≤ Ta ≤ +49°C
T5 -20°C ≤ Ta ≤ +64°C
T4 -20°C ≤ Ta ≤ +99°C
T3 -20°C ≤ Ta ≤ +120°C

MPEX Series

T6 -40°C ≤ Ta ≤ +57°C
T5 -40°C ≤ Ta ≤ +72°C
T4 -40°C ≤ Ta ≤ +107°C
T3 -40°C ≤ Ta ≤ +120°C

MPEXL Series

T6 -20°C ≤ Ta ≤ +57°C
T5 -20°C ≤ Ta ≤ +72°C
T4 -20°C ≤ Ta ≤ +107°C
T3 -20°C ≤ Ta ≤ +120°C

16 Report Number

GB/BAS/ExTR21.0037/00

17 Specific Conditions of Use

1. This equipment has an electrically isolated pole piece and where this is exposed it has capacitance up to 17pF. The user must determine the suitability of the equipment for the specific application. Precaution must be taken to avoid the accumulation of electrostatic charge on this part.
2. Where the product enclosure is made from aluminium and used in Zone 0, the user must ensure that the equipment is protected from impact or abrasion that could cause incendive sparks.
3. Where the equipment body is not labelled, the label supplied with this equipment must be affixed immediately to the electrical cable.
4. Where the label is affixed to the cable, the user must take precautions to avoid the accumulation of electrostatic charge on this part.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
MPEX Label	1 of 1	4.0	02/03/2021	MPEX Label Control Drawing
MPEX Body Styles	1 of 1	1.1	02/03/2021	MPEX Body Style Options

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
MPEX Coil Assemblies	1 of 1	1.0	09/12/2019	Coil Assembly Options for MPEX Series
MPEX Infallible Coil	1 of 1	3.0	22/10/2019	Requirements for Construction of MPEX Infallible Coil
MPEX IS Detail	1 of 1	1.0	25/06/2013	MPEX PCB Control Drawing
MPEX Nomenclature	1 of 1	1.0	16/12/2019	Nomenclature of the MPEX Series
MPEX Sensing Face	1 of 1	1.0	09/12/2019	MPEX Sensing Face Options
MPEX Terminations	1 of 1	1.0	09/12/2019	Termination options for MPEX Series
MPEX Typical Construction	1 of 1	1.0	10/12/2019	General Assembly Drawings for Typical MPEX Parts

20 Certificate History

Certificate No.	Date	Comments
Baseefa19ATEX0151X	28 January 2020	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079: 2018 and EN 60079-11: 2012. The assessment is documented with IECEx ExTR GB/BAS/ExTR20.0001/00 and held with Project file 19/0682.
Baseefa19ATEX0151X Issue 1	8 March 2021	To permit minor changes to the controlled drawings not affecting the previous assessment. The assessment is documented with IECEx ExTR GB/BAS/ExTR21.0037/00 and held with Project file 21/0137.
For drawings applicable to each issue, see original of that issue.		