



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ITS 13.0023X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 1 \(2013-10-23\)](#)
Date of Issue: **2013-10-23** [Issue No. 0 \(2013-09-06\)](#)

Applicant: **Logitech Electronics Limited**
121 Trench Road
Trench
Telford
TF2 7DP
United Kingdom

Electrical Apparatus: **MPEX range of Pickups**
Optional accessory:

Type of Protection: **Intrinsic Safety Ex ia**

Marking:
Logitech Electronics Limited
MPEX____
IECEXITS13.0023X
Ex ia IIC T6...T3 Ga

*Approved for issue on behalf of the IECEx
Certification Body:*

A T Austin

Position:

Technical Manager

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom





IECEX Certificate of Conformity

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Date of Issue: 2013-10-23 Page 2 of 4
Manufacturer: **Logitech Electronics Limited**
121 Trench Road
Trench
Telford
TF2 7DP
United Kingdom

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0
IEC 60079-26 : 2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
Edition:2

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

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/ITS/ExTR13.0026/00](#) [GB/ITS/ExTR13.0026/01](#)

Quality Assessment Report:

[GB/ITS/QAR13.0012/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 PCBs depending on the size and shape of the enclosure. A number of variants of the enclosure are available. The equipment utilises the Intrinsic Safety Protection Concept Ex ia, and has maximum input parameters: U_i : 30V, I_i : 160mA, P_i : 0.75W. Maximum output voltage of the pickup is 4.97V. *Models using the ATEX10 PCB, or having diameter less than 14mm: (MPEX11nn, MPEX11nnS, MPEX41nn, MPEX41nnS, MPEX41nnE) T6* $-30^{\circ}\text{C} \leq T_a \leq +49^{\circ}\text{C}$; *T5* $-30^{\circ}\text{C} \leq T_a \leq +64^{\circ}\text{C}$ *T4* $-30^{\circ}\text{C} \leq T_a \leq +99^{\circ}\text{C}$ *T3* $-30^{\circ}\text{C} \leq T_a \leq +120^{\circ}\text{C}$ *Models using the ATEX16 PCB or having diameter greater than 14mm: (MPEX06nn, MPEX08nn, MPEX06nnS, MPEX08nnS, MPEX06nnY, MPEX08nnY, MPEX16nn, MPEX16nnS, MPEX16nnY, MPEX18nn, MPEX18nnS, MPEX18nnY, MPEX36nn, MPEX38nn, MPEX36nnS, MPEX36nnY, MPEX38nnS, MPEX38nnY, MPEX56nn, MPEX58nn, MPEX56nnS, MPEX58nnS, MPEX66nn, MPEX66nnS, MPEX68nn, MPEX68nnS, MPEX76nn, MPEX78nn, MPEX76nnS, MPEX78nnS, MPEX76nnY, MPEX78nnY, MPEX34nn(L)X, MPU36nn(L)X) T6* $-30^{\circ}\text{C} \leq T_a \leq +57^{\circ}\text{C}$ *T5* $-30^{\circ}\text{C} \leq T_a \leq +72^{\circ}\text{C}$ *T4* $-30^{\circ}\text{C} \leq T_a \leq +107^{\circ}\text{C}$ *T3* $-30^{\circ}\text{C} \leq T_a \leq +120^{\circ}\text{C}$

CONDITIONS OF CERTIFICATION: YES as shown below:

Modified Condition of use:

Where the equipment body is not labelled, the label supplied with this equipment must be affixed immediately to the electrical cable.

New Condition of Use

Where the label is affixed to the cable, the user must take precautions to avoid the accumulation of electrostatic charge on this part.

Conditions of Manufacture (Routine Tests):

A dielectric strength test of 500Vac rms (48 – 62Hz) or 700V dc must be applied to every unit between the Circuit and the Enclosure and between the circuit and the pole piece. The voltage shall be applied for a period of 60 seconds. Leakage current must not exceed 5mA.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Plane area on equipment surface for application of marking by chemical etching, Laser Marking or application of an adhesive label.

Up to 100m of attached cable on MPEX11nn and MPEX16nn / 18nn series of pickups and include Ci and Li parameters on label. (Ci: 22nF, Li: 34 μ H for cable length <100m. Ci: 0, Li: 0 where there is no attached cable).

Lower ambient reduced from -20°C to -30°C for all variants.

Annex:

[Annex to IECEx ITS 13.0023X Issue 0.pdf](#)

[Annex to IECEx ITS 13.0023X Issue 1.pdf](#)



Schedule of Drawings for Certificate: IECEx ITS 13.0023X Issue: 0

Manufacturer:

Logitech Electronics Ltd
121 Trench Road
Trench
Telford
TF2 7DP

Document No.	Sheets	Document Title	Issue	Date (mm/dd/yyyy)
MPEX Label	1	MPEX Label Control Drawing	1.0	28/06/2013
MPEX IS Detail	1	Ex PCB Control Drawing	1.0	25/06/2013
Infallible coil construction	1	EX requirements for construction of infallible coil	1.0	17/06/2013
MPEX06nn / 08nn series	1	General Assembly Drawing of EX certified product	1.0	07/05/2013
MPEX06nnS / 08nnS series	1	General Assembly Drawing of EX certified product	1.0	07/05/2013
MPEX06nnY / 08nnY series	1	General Assembly Drawing of EX certified product	1.0	07/05/2013
MPEX11nn series	1	General Assembly Drawing of EX certified product	1.0	01/05/2013
MPEX11nnS series	1	General Assembly Drawing of EX certified product	1.0	01/05/2013
MPEX16nn / 18nn series	1	General Assembly Drawing of EX certified product	1.0	07/05/2013
MPEX16nnS / 18nnS series	1	General Assembly Drawing of EX certified product	1.0	07/05/2013
MPEX16nnY / 18nnY series	1	General Assembly Drawing of EX certified product	1.0	07/05/2013
MPEX34nn(L)X / 36nn(L)X	1	General Assembly Drawing of EX certified product	1.0	16/04/2013
MPEX36nn / 38nn series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013
MPEX36nnS / 38nnS series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013
MPEX36nnSY / 38nnSY series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013
MPEX36nnY / 38nnY series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013

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<http://www.intertek.com>

Registered No 3272281. Registered Office: Academy Place 1-9 Brook Street, Brentwood, Essex CM14 5NQ

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Document No.	Sheets	Document Title	Issue	Date (mm/dd/yyyy)
MPEX 41nn series	1	General Assembly Drawing of EX certified product	1.0	09/05/2013
MPEX 41nnE series	1	General Assembly Drawing of EX certified product	1.0	09/05/2013
MPEX 41nnS series	1	General Assembly Drawing of EX certified product	1.0	09/05/2013
MPEX56nn / 58nn series	1	General Assembly Drawing of EX certified product	1.0	03/05/2013
MPEX56nnS / 58nnS series	1	General Assembly Drawing of EX certified product	1.0	03/05/2013
MPEX66nn / 68nn series	1	General Assembly Drawing of EX certified product	1.0	03/05/2013
MPEX66nnS / 68nnS series	1	General Assembly Drawing of EX certified product	1.0	03/05/2013
MPEX76nn / 78nn series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013
MPEX76nnS / 78nnS series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013
MPEX76nnSY / 78nnSY series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013
MPEX76nnY / 78nnY series	1	General Assembly Drawing of EX certified product	1.0	15/04/2013

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Schedule of Drawings for Certificate: IECEx ITS 13.0023X Issue: 1

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Document No.	Sheets	Document Title	Issue	Date (mm/dd/yyyy)
MPEX Label	1	MPEX Label Control Drawing	2.0	14/10/2013
MPEX Label Alternative	1	MPEX Label Alternative Control Drawing.	1.0	14/10/2013
Typical MPEX Part	1	Modification to allow for fixing of alternate label.	1.0	14/10/2013
Infallible coil construction	1	EX requirements for construction of infallible coil	2.0	14/10/2013
MPEX11nn series	1	General Assembly Drawing of EX certified product	2.0	14/10/2013
MPEX16nn / 18nn series	1	General Assembly Drawing of EX certified product	2.0	14/10/2013

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