

1 EC-TYPE EXAMINATION CERTIFICATE



2 **Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 **EC-Type Examination Certificate No:** FM08ATEX0007

4 **Equipment or protective system:** Model 010041 Viator Bluetooth Interface
(Type Reference and Name)

5 **Name of Applicant:** MACTek Corporation

6 **Address of Applicant:** 7380 Stoneham Rd
Gates Mills OH 44040 USA

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Ltd, notified body number 1725 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3030621EC dated 27th June 2008

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0: 2012 and EN 60079-11: 2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This EC-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



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Mick Gower
Certification Manager, FM Approvals Ltd.

Issue date: 11th December 2014

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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SCHEDULE



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13 Description of Equipment or Protective System:

The Model 010041 Viator Bluetooth Interface is a wireless communication device for use with an ATEX certified HART enabled field device. The interface converts and transmits the electrical HART signal via a 2.4GHz radio wave to another location.

The Model 010041 Viator Bluetooth Interface is contained on one main printed circuit board. The printed circuit board contains a 2.4GHz piggy back radio board. The apparatus is powered by three internal "AAA" alkaline batteries in series to deliver a nominal 4.5V to the circuitry. The "AAA" batteries tested for use with the Model 010041 Viator Bluetooth Interface are the Energizer Industrial EN92 alkaline. The Model 010041 Viator Bluetooth Interface contains two clip leads for connection to a HART signal.

The Model 010041 Viator Bluetooth Interface circuitry is contained inside of a polymeric handheld housing approximately 2 $\frac{3}{4}$ " by 1 $\frac{1}{2}$ " by $\frac{3}{4}$ ". The polymeric material is specified to be Polycarbonate THE-CON(5-9) 14-000-FR manufactured by THEMIX Plastic, Inc. Two leaded wires, approximately 17" long, extrude through the housing to the clips used for connection to the HART signal.

010041. Viator Bluetooth Interface.

Energy Limitation Parameters:

$U_i = 30V$, $I_i = 130mA$, $P_i = 1W$, $C_i = 0\mu F$, $L_i = 0mH$.

$U_o = 1.7V$, $I_o = 2.5mA$, $P_o = 1.1mW$, $C_o = 100\mu F$, $L_o = 1H$.

14 Specific Conditions of Use:

None

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

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18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
02 nd July 2008	Original Issue.
27 th August 2009	<u>Supplement 1:</u> Report Reference: – Supplement 1 to report No. 3030621EC dated 27 th August 2009. Description of the Change: Minor changes to documentation not affecting safety.
11 th December 2014	<u>Supplement 2:</u> Report Reference: – 3050599 dated 10 th December 2014. Description of the Change: Updated standards. Minor changes to circuit and changes to documentation. Standard 60079-26 removed since it is covered by 60079-11. Updated name and part number of plastic enclosure to keep it up to date with the part number assigned by the new manufacturer.



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