

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:
(Type Reference and Name) **MODEL 010041 VIATOR BLUETOOTH INTERFACE**

5 Name of Applicant: **MACTek Corporation**

6 Address of Applicant: **7380 Stoneham Road
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 27 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: 2006, EN 60079-11: 2007 and EN 60079-26: 2007

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe 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:



II 1 G Ex ia IIC T4 Ta = -20°C to 50°C

Andrew Was
General Manager, FM Approvals Ltd.

Issue date:

2nd July 2008



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

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13 Description of Equipment or Protective System:

The Model 010041 Viator Bluetooth Interface is 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 3/4" by 1 1/2" by 3/4". The polymeric material is specified to be Polycarbonate PRE-ELEC CR (5-9) 14-000 manufactured by PREMIX Thermoplastics, Inc. Two leaded wires, approximately 17" long, extrude through the housing to the clips used for connection to the HART signal.

Product Listing:

010041. Viator Bluetooth Interface.

II 1 G Ex ia IIC T4 Ta = -20°C to 50°C;

Energy Limitation Parameters:

Ui = 30V, Ii = 130mA, Pi = 1W, Ci = 0μF, Li = 0mH.

Uo = 1.7V, Io = 2.5mA, Po = 1.1mW, Co = 100μF, Lo = 1H.

14 Special Conditions for Safe 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.

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17 Approved Drawings

Drawing No:	Revision	Title / Description
AF01004100	CF	Viator Bluetooth Interface Final Assembly
AF0100411B	DF	Viator Bluetooth Interface Final Assembly Bill of Material
AM01004100	DC	Viator Bluetooth Interface Bottom House Assembly
AM0100411B	BF	Viator Bluetooth Interface Bottom House Assembly Bill of Material
AP01004100	CE	Viator Bluetooth Interface PCB Assembly Drawing
AP0100411B	CG	Viator Bluetooth Interface AP01004100 PCB Assembly BOM
AT0100410C	AC	Viator Bluetooth Interface Control Drawing
AT0100411B	DF	Viator Bluetooth Interface Top Level BOM
DL01004100	BG	Viator Bluetooth Interface 010041 Front Label
DL01004200	BH	Viator Bluetooth Interface 010041 Rear Label
DL01004300	AA	Serial Number Label
DM0100410U	AD	Viator Bluetooth Interface for use with HART Devices User's Manual
HC01004100	CF	Viator Bluetooth Interface Top Cover Housing
HC01004200	DD	Bottom Cover Housing
HC01004300	BD	Viator Bluetooth Interface Battery Door Housing
PW01004100	DL	Viator Bluetooth Interface PCB Bare
PW01004110	DF	Viator Bluetooth Interface PCB Assy, AP01004100
TDS010041	AF	Viator Bluetooth Interface Model 010041 for use with HART field devices
US01004100	AA	BT Modem Module Assembly
US01004110	AB	BT Modem Module Assembly
US0100411B	AB	Viator Bluetooth Interface Bluetooth radio assembly Bill of Materials

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