

# MACTek® VIATOR® Bluetooth HART® Interface Model 010041



WIKA Data Sheet SP 10.22



## Applications

- Personal Computer HART® Interface
- Communicates with all HART® Field Devices
- Operates with most PC based HART® Communication compliant software
- Commissioning field devices installed in hazardous locations

## Special Features

- Wireless communication with HART® devices
- ATEX Ex ia / CSA / FM approved
- Compact, rugged case
- High speed for 100 meter open air range
- Integral HART® cable with two test clips



Bluetooth Ex ia HART® Interface with two test clips

## Description

### Overview

The VIATOR® Bluetooth Interface is a point-to-point HART® PC modem for temporary connection to HART® field devices used with software primarily as a configuration management tool.

### Features

The PC host uses internal Bluetooth Interface to communicate with the Bluetooth modem. Pairing with host PCs, Pocket PCs and PDAs is simple. Default operating mode is to establish the connection with Windows Bluetooth serial port profile.

Faceplate push button manually controls on/of and battery check mode. Faceplate LED displays communication heartbeat and battery charge remaining. The modem can operate approximately 20 hours powered by replaceable AAA battery cells.

### Designed for Easy Use

The interface is enclosed in a small, rugged ABS plastic case, suitable for the industrial environment. The interface small size allows you to attach it directly to your computer's serial interface. No adapter cable is required.

### Explosion Protection

The VIATOR® Bluetooth Interface is intrinsically safe for use in hazardous areas. Intrinsically safe approved for connection to circuits extending into potentially explosive atmospheres designated type II (1) G Ex ia IIC, which includes ignition protection groups IIA, IIB and IIC.

### Compatibility

The Interface is compatible with Windows, Windows Mobile, or any OS that supports Bluetooth COM port.

Specifications		Bluetooth HART® Interface	
<b>Host system</b>			
Operating system	Windows, Windows Mobile, or any OS that supports Bluetooth COM port		
Platform	Any PC, PDA, Laptop or other computer with Bluetooth support		
<b>Bluetooth</b>			
Modular approval	Version 2.0 EDR (Bluetooth 2.0 Class 1)		
Range	Contains FCC ID: TJ9RN41-1 and IC ID: 6514A-RN-411CE 0681		
Operating frequency	100 meters (open air)		
RF output power	2.4 GHz (2402 – 2480 MHz), 79 channels		
Antenna	18 dBm (Bluetooth 2.0 Class 1)		
	Integrated Omni-Directional		
<b>Electrical</b>			
Batteries <sup>1)</sup>	Accepts 3 – AAA, 1.5 VDC, alkaline cells, type IEC-LR03		
Battery life	Approximately 20 hours continuous usage		
Cable to HART® device	0.5 m length, 20 AWG stranded, termination BLUE mini-grabbers		
<b>Environmental</b>			
Operating Temperature	-20 °C ... +50 °C (-4 °F ... +122 °F), 0 % ... 95 % relative humidity noncondensing		
Storage Temperature	-20 °C ... +35 °C (-4 °F ... +95 °F), 0 % ... 95 % relative humidity noncondensing		
<b>Physical dimensions</b>			
Enclosure	88 mm x 42 mm x 19 mm, Conductive ABS, Enclosure rating: IP 20		
<b>Certification</b>			
Directive EMC 2004/108/EC	CE approved for emissions and immunity, EN 61 326-1		
<b>BT Approvals</b>			
Modular approval	Contains FCC ID: TJ9RN41-1 and IC ID: 6514A-RN-411CE 0681		
<b>Ex Approvals</b>			
ATEX	II 1G Ex ia IIC T4 T <sub>amb</sub> : -20 °C ≤ ta ≤ +50 °C		
FM and CSA			
Intrinsic Safety (Division)	Class I, Division 1, Group A, B, C, D (Gas), T4 T <sub>amb</sub> : -20 °C ≤ ta ≤ +50 °C		
Intrinsic Safety (Zone)	Ex ia IIC T4 T <sub>amb</sub> : -20 °C ≤ ta ≤ +50 °C		
Non-incendive	Class I, Division 2, Group A, B, C, D (Gas), T4 T <sub>amb</sub> : -20 °C ≤ ta ≤ +50 °C		

1) Intrinsic Safety Certifications are valid only with approved alkaline batteries installed. Approved battery: Energizer EN 92

Product	Order No.
<b>Model 010041</b>	11364254
Alternative available	
Modem RS232 (non Ex)	7957522
Modem USB	11025166

Modifications may take place and materials specified may be replaced by others without prior notice. Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.



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