MACTek® VIATOR®
Bluetooth HART® Interface
Model 010041

MACTek®
Measurement and Control Technologies

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.
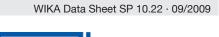
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Specifications Bluetooth HART® Interface

Host system	
Operating system	Windows, Windows Mobile, or any OS that supports Bluetooth COM port
Platform	Any PC, PDA, Laptop or other computer with Bluetooth support
Bluetooth	Version 2.0 EDR (Bluetooth 2.0 Class 1)
Modular approval	Contains FCC ID: TJ9RN41-1 and IC ID: 6514A-RN-411CE 0681
Range	100 meters (open air)
Operating frequency	2.4 GHz (2402 – 2480 MHz), 79 channels
RF output power	18 dBm (Bluetooth 2.0 Class 1)
Antenna	Integrated Omni-Directional
Electrical	
Batteries [1]	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
Environmental	
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
Physical dimensions	
Enclosure	88 mm x 42 mm x 19 mm, Conductive ABS, Enclosure rating: IP 20
Certification	
Directive EMC 2004/108/EC	CE approved for emissions and immunity, EN 61 326-1
BT Approvals	
Modular approval	Contains FCC ID: TJ9RN41-1 and IC ID: 6514A-RN-411CE 0681
Ex Approvals	
ATEX	II 1G Ex ia IIC T4 T_{amb}: -20 °C ≤ ta ≤ +50 °C
FM and CSA	
Intrinsic Safety (Division)	Class I, Division 1, Group A, B, C, D (Gas), T4 T_{amb}: -20 °C ≤ ta ≤ +50 °C
Intrinsic Safety (Zone)	Ex ia IIC T4 T_{amb}: -20 °C ≤ ta ≤ +50 °C
Non-incendive	Class I, Division 2, Group A, B, C, D (Gas),T4 T_{amb}: -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.
Model 010041	11364254
Alternative available	
Modem RS232 (non Ex)	7957522
Modem USB	11025166

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