



VIATOR[®] Bluetooth Interface Model 010041 for use with HART[®] field devices



The **VIATOR Bluetooth Interface** is a point-to-point HART PC modem for temporary connection to HART field devices that is used with software primarily as a configuration management tool. The **VIATOR Bluetooth Interface** is intrinsically safe for use in hazardous areas. The modem can operate approximately 20 hours powered by replaceable AAA battery cells. The modem physically attaches to the HART field device with 18" leads and mini-grabber clips. The PC host uses internal Bluetooth interface or a USB to Bluetooth converter 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/off and battery check mode. Faceplate LED displays communication heartbeat and battery charge remaining.

VIATORCheckBT[™] PC software allows users to test connection with devices and to remotely turn off the modem, check battery charge remaining, put it to sleep to save battery, wake up from sleep when ready to continue use, and to remotely cause the LED to flash rapidly to identify which BT modem is connected to the PC (squawk feature.)

HARTCommDTM software from CodeWrights allows use of the BT modem with FTD frame applications.

Features and benefits

- Easy to use
- HART Registered with HCF = fully HART compliant for communication reliability
- Hardware for wireless communication between PC host and any HART field device
- HART software compatibility – works with all HART compliant HART PC software applications
- Enables device management and troubleshooting of HART field devices
- Powered by replaceable 3x AAA alkaline batteries - battery life approximately 20 hours.
- ATEX and IS compliant for use inside hazardous areas
- Safety approvals from FM, ATEX; FCC, CE and RoHS compliant
- High power, high speed Bluetooth for 100 meter open air range – use PC host outside hazardous area
- Adaptive frequency hopping to reduce RF interference
- Intelligent / adaptive power management to conserve battery power
- Uses Windows Bluetooth Serial Port Profile (SPP virtual COM port) for simple pairing of PC host and BT modem
- HART software compatibility – works with all HART compliant PC HART applications
- HARTCommDTM software to support use with FDT frame applications
- VIATORCheckBT[™] software to test connections and configure BT modem
- Compact size – fits in a tool bag and but is not too small to get lost
- High quality 18" leads with MiniGrabber test clips that naturally avoid tangling
- User friendly on-off push button power switch – no costly operator training required
- LED feedback of power-on state and LED heartbeat showing HART traffic
- Simple pairing with host PCs, Pocket PCs and PDAs

Technical Specifications

Host System	
Platform	Any PC, PDA, Laptop or other computer with Bluetooth support
Operating System	Windows, Windows Mobile, or any OS that supports Bluetooth COM port
Application	Any HART compatible communication application
RF	
Bluetooth	Version 2.0 EDR (Bluetooth 2.0 Class 1)
Range	100 meters (open air)
Operating Frequency	2.4GHz (2402 – 2480 MHz), 79 channels
RF Output Power	18dBm (Bluetooth 2.0 Class 1)
Antenna	Integrated Omni-Directional
Electrical	
Batteries (Note 1)	Accepts 3 – AAA, 1.5VDC, alkaline cells, type IEC-LR03
Battery Life (per charge)	Approximately 20 hours continuous usage.
Output Level	Fully HART compliant trapezoidal wave @ 1200/2200 Hz
Environmental	
Operating	-20°C to 50°C (-4°F to 122°F), 0% to 95% relative humidity non-condensing
Storage	-20°C to 35°C (-4°F to 95°F), 0% to 95% relative humidity non-condensing
Enclosure	
Dimension, Material, IP Rating	88mm x 42mm x 19mm, Conductive ABS, Enclosure rating: IP20
Electrical Connections	
HART I/O Interface Cable	.5m length, 20AWG stranded, termination BLUE mini-grabbers
Certifications	
Directive EMC 2004/108/EC	CE approved for emissions and immunity, EN 61326-1
BLUETOOTH modular approvals	Contains FCC ID: TJ9RN41-1 and IC ID: 6514A-RN-411 CE 0681
Directive (RoHS) 2002/95/EC	Restricted materials not used
European Approvals	
ATEX	II 1G Ex ia IIC T4 -20°C ≤ ta ≤ +50°C
United States & Canadian Approvals	
FM Approvals	
Intrinsic Safety (Division)	Class I, Division 1, Group A,B,C,D (Gas), T4 -20°C ≤ ta ≤ +50°C
Intrinsic Safety (Zone)	AEx ia IIC T4 -20°C ≤ ta ≤ +50°C
Non-Incendive	Class I, Division 2, Group A,B,C,D (Gas), T4 -20°C ≤ ta ≤ +50°C

Note 1: Intrinsic Safety Certifications are valid only with approved alkaline batteries installed.
Approved battery: Energizer EN92

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