



## VIATOR<sup>®</sup> *Bluetooth*<sup>®</sup> Interface Model 010040 for use with HART<sup>®</sup> field devices

The **VIATOR<sup>®</sup> *Bluetooth*<sup>®</sup> 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 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/of and battery check mode. Faceplate LED displays communication heartbeat and battery charge remaining.

VIATORCheckBT<sup>™</sup> 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
- 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.
- FCC, CE and RoHS compliant
- High power, high speed **Bluetooth** for 100 meter open air range
- 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<sup>™</sup> 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

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## Technical Specifications

|                                  |  |
|----------------------------------|--|
| <b>Host System</b>               |  |
| Platform                         | Any PC, PDA, Laptop or other computer with <b>Bluetooth</b> support        |
| Operating System                 | Windows, Windows Mobile, or any OS that supports <b>Bluetooth</b> COM port |
| Application                      | Any HART compatible communication application                              |
| <b>Radio</b>                     |  |
| <b>Bluetooth</b>                 | Version 2.0 EDR ( <b>Bluetooth</b> 2.0 Class 1)                            |
| Range                            | 100 meters (open air)  |
| Operating Frequency              | 2.4GHz (2402 – 2480 MHz), 79 channels                                      |
| RF Output Power                  | 18dBm ( <b>Bluetooth</b> 2.0 Class 1)                                      |
| Antenna                          | Integrated Omni-Directional  |
| <b>Electrical</b>                |  |
| 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                       |
| <b>Environmental</b>             |  |
| 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   |
| <b>Enclosure</b>                 |  |
| Dimension, Material, IP Rating   | 88mm x 42mm x 19mm, Conductive ABS, Enclosure rating: IP20                 |
| <b>Electrical Connections</b>    |  |
| HART I/O Interface Cable         | .5m length, 20AWG stranded, termination BLUE mini-grabbers                 |
| <b>Certifications</b>            |  |
| CE Marking                       | Directives: EMC: 2004/108/EC, R&TTE: 1999/5/EC                             |
| BLUETOOTH Radio module approvals | Contains FCC ID: TJ9RN41-1 and IC ID: 6514A-RN-411 CE 0681                 |
| Directive (RoHS) 2002/95/EC      | Restricted materials not used  |



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