

# MACTek® VIATOR® RS232 HART® Interface Model 010001

WIKA Data Sheet SP 10.10



## Applications

- Personal Computer HART® Interface
- Communicates with all registered HART® Field Devices
- Operates with most PC based HART® Communication compliant Software

## Special Features

- Compact, rugged case
- CE Mark for sale in Europe
- Integral HART® cable with two test clips
- Transformer isolation
- Powered from serial port
- Polarity insensitive



**RS232 HART® Interface**

## Description

### Overview

The VIATOR HART® Interface is a PC communication link to HART® networks for commissioning, servicing, calibrating, or acquiring data from any HART® instrument or transmitter.

### Features

The Interface requires no special installation, operates on low power for notebook compatibility, and is isolated and fully HART® compliant. It draws power from the RS232 Interface and requires no external power supply. The Interface operates on as little as 2.0 mA at voltages as low as 4.0 VDC, which is well within the capabilities of most PC systems, including energy-efficient notebook computers. The Interface adheres to the EIA-RS232C standard and supports hardware handshaking.

### Designed for Easy Use

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

### Compatibility

The Interface is compatible with all Windows operating systems and also compatible with operating system software such as MSDOS V5.0 or greater that supports RS232 serial ports.

| TECHNICAL SPECIFICATIONS          | VIATOR RS232 HART <sup>®</sup> INTERFACE  |
|-----------------------------------|---|
| <b>SOFTWARE</b>                   |   |
| Operating System                  | OS that supports serial COM port<br>WINDOWS 98, 2000, XP                                      |
| <b>ELECTRICAL</b>                 |   |
| Power Supply                      | + 4V to + 12V, System powered by DTR and RTS RS232 inputs, Does not use external power supply |
| Supply Current                    | 1.5 mA @ +4V. 4.0 mA @ + 12V  |
| Pins to Computer                  | DB-9 Connector  |
| Pins to HART <sup>®</sup> Device  | 2-pin, polarity insensitive test clips  |
| Output Level                      | 0.5 +/-0.1 Vpp trapezoidal wave @ 1200/2200 Hz  |
| Isolation                         | 1500 VDC between instrument and computer  |
| <b>ENVIRONMENTAL</b>              |   |
| Operating Temperature             | 0°C to 50°C (32°F to 122°F)   |
| Storage Temperature               | -40°C to 70°C (-40°F to 158°F)  |
| Storage Humidity                  | 0% to 95% relative humidity   |
| <b>PHYSICAL DIMENSIONS</b>        |   |
| Enclosure                         | 49.4x33.3x15 mm (1.95x1.31x0.59 in)<br>ABS industrial enclosure                               |
| Test Clip Cable                   | 2m (6 ft) 2-strand wire terminating in two test clips   |
| <b>CERTIFICATION</b>              |   |
| EMC 89/336/EEC                    | CE approved for emissions and immunity, EN 61326  |
| For use in FM Hazardous Locations | In compliance with the FM standard<br>for Class I Division II Hazardous Locations             |

| Product                             | Order No. |
|-------------------------------------|-----------|
| Model 010001                        | 7957522   |
| Alternative available               |           |
| Modem USB                           | 11025166  |
| Modem RS232 ATEX<br>EEx ia approved | 2442791   |

Products manufactured by

**MACTek<sup>®</sup>**  
Measurement and Control Technologies

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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