

# MACTek® VIATOR® RS232 HART® Interface [EEx ia] IIC Model 010005

WIKA Data Sheet SP 10.09



## Applications

- Personal Computer HART® Interface
- Communicates with all registered HART® Field Devices
- Operates with most PC based HART® Communication compliant Software
- Commissioning Field Devices installed in Hazardous Locations

## Special Features

- ATEX EExX ia approved
- 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 EEX ia HART® Interface

## Description

### Overview

The VIATOR USB HART® Interface is a PC communication link to HART® networks for commissioning, servicing, calibrating, or acquiring data from any HART® instrument or transmitter. This external interface is rugged and compact for field use.

### 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 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

Intrinsically safe approved for connection to circuits extending into potentially explosive atmospheres designated type II (1) G [EEx ia] IIC, which includes ignition protection groups IIA, IIB and IIC.

### 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.

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TECHNICAL SPECIFICATIONS	RS232 HART <sup>®</sup> INTERFACE EEx [ia]
<b>SOFTWARE</b>	
Operating System	OS that supports serial COM port WINDOWS 98, 2000, XP
<b>ELECTRICAL</b>	
Power Supply	+ 4V to + 12V, System powered RS232 input, No external power supply necessary
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	375 VDC peak 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) ABS industrial enclosure
Test Clip Cable	2m, 2-strand wire terminating in 2 blue 2mm pin jacks with crocodile clip adapters
<b>CERTIFICATION</b>	
EMC 89/336/EEC	CE approved for emissions and immunity, EN 61326
ATEX Directive 94/9/EC	Approved for connection to II (1) G [EEx ia] IIC circuits (not for use in Ex area)

Product	Order No.
Model 010005	2442791
Alternative available	
Modem RS232 (nonEx)	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.