

*Thank you for choosing a NIVELCO instrument.*

## 1. APPLICATION

The SAT-304 HART® MODEM communication interface establishes a connection between HART® devices and PCs. It is compatible with any device that meets HART specifications.

The device is galvanically isolated from HART® and does not require an external power supply.

## 2. TECHNICAL DATA

Ambient temperature	-25...+55 °C (-13...+131 °F)
Housing material	Polystyrol
PC connection	USB 1.1 "B" connector
PC cable	USB "A-B" 1.8 m (5.9 ft)
Connection (HART® field)	KLEPS 2
Spiral cable length (HART® field)	0.6 m (1.1 m) (23.6" [43.3"])
Ingress protection	IP20
Electrical protection	Class III, 4 kV galvanically isolated
Weight	100 g

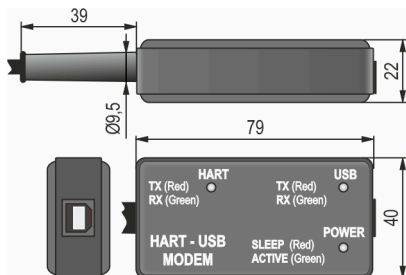
## 2.1 ACCESSORIES

- User's manual
- Warranty card
- EU declaration of conformity
- USB "A-B" 1.8 m (5.9 ft)

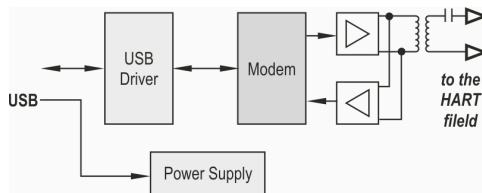
## 2.2 ORDER CODE

**HART® MODEM SAT-304**

## 2.3. DIMENSIONS



## 2.4 BLOCK SCHEME



## 3. COMMUNICATION

The SAT-304 fully complies with HART® communication specifications (up to HART® FSK-5x revision). For communication via the USB 1.1 or USB 2.0 port of the computer, a USB - virtual COM port driver program (FT232BM) is required, which can be found on the EVIEW LIGHT CD supplied with NIVELCO HART® devices, or from <http://ftdichip.com> can be installed after downloading from the site..

# UNICOMM

SAT-304  
HART® / USB MODEM

## USER'S MANUAL



Dodávateľ:

**MICROWELL spol. s r. o.**

SNP 2018/42, 927 00 Šaľa

Tel.: (+421) 31/ 770 7585

E-mail: [microwell@microwell.sk](mailto:microwell@microwell.sk)

[www.microwell.sk](http://www.microwell.sk)



Manufacturer:

**NIVELCO Process Control Co.**

H-1043 Budapest, Dugonics u. 11.

Phone: (36-1) 889-0100

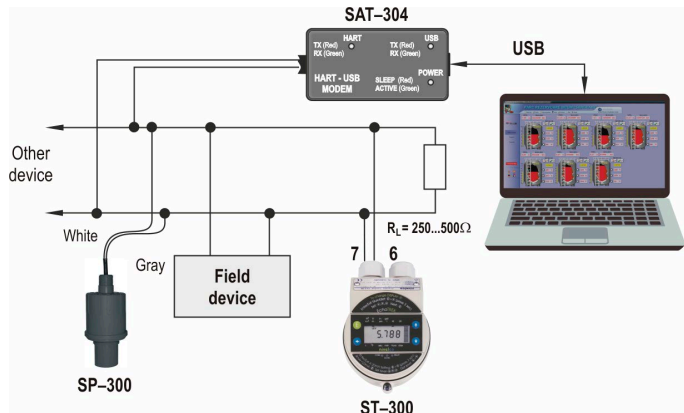
E-mail: [sales@nivelco.com](mailto:sales@nivelco.com) ■ [www.nivelco.com](http://www.nivelco.com)



NIVELCO

## 4. WIRING

The modem can be used with any HART® device that meets the conditions stated in the HART® description. The modem is connected to the PC's USB 1.1 or 2.0 standard port with a USB A-B cable provided as an accessory. The HART® field connection is made with two KLEPS2 clips. The connection diagram illustrates the placement of the pair of clamps on the 4...20 mA wire. Polarity is irrelevant. It is not equipped with lightning protection, so additional protection methods must be used per the HART® standard.



## 5. MAINTENANCE AND REPAIR

The device does not require regular maintenance. Refer to the warranty card for warranty information. The device returned for repair must be cleaned by the user, all chemical deposits must be removed, and the device must be disinfected before sending it back.

In addition, the return package must include a properly filled [Returned Equipment Handling Form](#), in which the sender declares that the device is free of all contamination and substances hazardous to health.

## 6. STORAGE CONDITIONS

Ambient temperature: -25...+55 °C (-13...+131 °F)  
Relative humidity: max. 98%

sat304hu05h01  
February 2005

NIVELCO reserves the right to change anything in this manual without notice.