HART - Modem USB   DEV-HM

● **Characteristics**

- Active operation:	current loop is supplied too
- Passive operation:	used in an existing current loop
- PC interface:	virtual serial port
- Supply:	out of USB connection
- Current consumption:	175...275 mA
- Connection HART:	alligator clip
- Connection PC:	USB type A
- USB specification:	2.0 compatible
- Protection:	IP20
- Galvanical insulation:	between USB and HART
- Case:	ABS, 105x66x20 mm

● **Technical data**

HART

Electrical coupling:	capacitive
Output level:	900 mVpp across 250 Ω
Input sensitivity:	200 mVpp
Leakage current:	<10 µV
Data rate:	1200 bps (brutto)
Modulation:	FSK (1,2 kHz = bit „1" / 2,2 kHz = bit „0")
Insulation voltage:	250 V AC/DC
Galvanical insulation:	between HART and USB circuit

USB

Specification:	USB 2.0

PC

Operating system:	Windows XP
Software interface:	virtual serial port
Driver:	FTDI USB to COM universal driver

Connection

USB:	
PC:	USB type A
Modem:	USB mini, 5-pole (standard)
Cable length:	1,5 m
HART:	
HART circuit:	alligator clips
Cable length:	1,5 m

Software (included)

HART-Tool:	graphical, menu-driven user interface
COM interface:	vitual serial port (USB to COM)

● **Applications**

The HART modem can be used together with a PC and the software tool for putting into operation, configuration, analysis of signals, data backup and documentation of a corresponding field device. The integrated current loop supply make possible a standalone operation to do the configuration (transmitter is supplied too).

● *Technical data (continued)*

Supply

Modem:
    Voltage: 5 V out of USB port
    Current consumption: 175...275 mA
HART circuit:
    Voltage: 18...25 V
    Current: 23 mA maximum (short circuit proof))

Ambient conditions
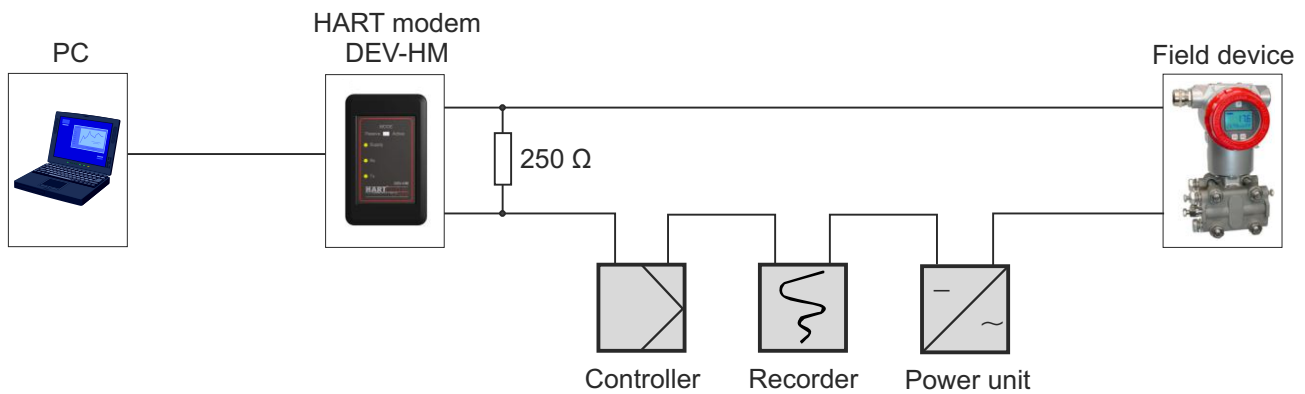
Operating temperature: 0...+50°C
Storage temperature: -40...+85°C
Air humidity: 0...99%, not condensing
CE-mark: EMC directive 2004/108/EG
         EN 61326

Mechanics

Case:
    Dimensions: 105x66x20 mm
    Material: ABS
Protection: IP 20
Weight: approx. 200 g (with connection cables)

● *Examples for connection*

HART modem in passive mode, communication resistance in current loop circuit

PC   HART modem DEV-HM   250 Ω   Field device

Controller   Recorder   Power unit

HART modem active, communication resistance inside modem, current loop supply out of modem

PC   HART modem DEV-HM   Field device

● *Items delivered*

Modem with HART cable   USB cable   Software

HART modem, cables, software	Order No.: