Characteristics

15 - INTERFACE - COMMUNICATION



- 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:	175275 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, W7, W8
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))

Environmental 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:

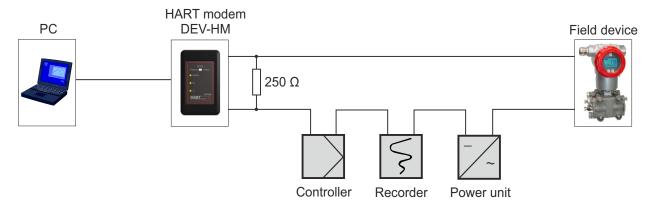
Dimensions: 105x66x20 mm

Material: ABS Protection: IP 20

Weight: approx. 200 g (with connection cables)

Examples for Connection

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



HART modem active, no external resistance, current loop is supplied out of modem



Items Delivered







Modem with HART cable

USB cable

Software

HART modem, cables, software Order No.: 01310-00220