# **SIEMENS**

## Interface (HART-modem) for SIPROM

# **Software and SIMATIC PDM**

7MF4997 - 1DA
Interface for the connection of HART instruments to a PC

#### **Application**

With the interface (HART-modem) it is possible - using the respective software - to communicate from a PC via its serial interface with the HART instrument.

The scope of supply includes:

- Interface with 9-pole serial connector DB-9
- 2-wire connecting cable with test clips
- Users' manual (german / english)

# Working principle

The interface requires very little energy to be notebook-compatible. The instrument is galvanically isolated (1500 VDC) and conforms entirely to HART standards.

The interface gets its source of energy from the computer's RS 232 interface, thus eliminating the need for external power supply.

The instrument is protected against reverse polarity, and each test clip can be connected to the plus or minus pole. The direction of the current flow does not have to be measured.

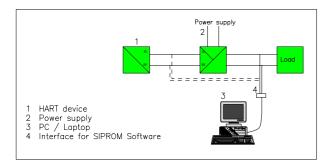


Fig. 2: Connection of the interface

### Requirements for Hard- und Software

- Computer with at least one serial interface (RS 232)
- 9-pole DB-9 plug on at least one serial interface
- Operating software which supports the RS 232 serial interface
- User software for communication with HART instruments

e.g.

• SIMATIC PDM

The interface was tested on the above mentioned combinations.



Fig. 1: Interface

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Technical Data	
Power supply	no external power supply needed Power supply via RS 232 (+/- 4V to +/- 12 V)
Supply current	1,5 mA per +/- 4 V inputs 4,0 mA per +/- 12 V inputs Power is drawn equallyfrom all RS 232 inputs, regardless of state. Supply current does include current load on output pins
Output level	fully HART compliant 0,5 +/- 0,1 Vpp trapezoidal wave at 1200 / 2200 Hz
Isolation	1500 VDC between instrument and computer
Software - requireme	ents  MSDOS Version 5.0 or higher or equivalent OS that supports serial COM - Port
Environmental Spec Temperature	ifications
Operating Storage Humidity	0 ° to +50 °C -40 ° to +85 °C 0 to 95 %, non condensing
CE - approval	yes
Housing Dimensions Weight Connector cable	50 x 34 x 15 mm 70 g twisted pair wire 1,80 m
	with test clips Polarity insensitive termination

Ordering data	
Name	Ordering no.
Interface for SIPROM Software	7MF4997 - 1DA
	Stock item