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 notebookcompatible. 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.

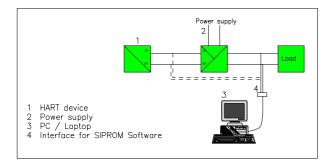


Fig. 2 : Connection of the interface

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

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
Isolation	at 1200 / 2200 Hz 1500 VDC between instrument and
ISUIALIUTI	computer
Software - requiremer	•
Soltware - requirement	MSDOS Version 5.0 or higher
	or equivalent OS that supports
	serial COM - Port
Environmental Specifi	cations
Temperature	
Operating	0 ° to +50 °C
Storage	-40 ° to +85 °C
Humidity	0 to 95 %, non condensing
CE - approval	yes
Housing	
Dimensions	50 x 34 x 15 mm
Weight Connector cable	70 g twisted pair wire 1,80 m
	wisted pair wife 1,00 m with test clips
	Polarity insensitive termination

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

Edition : 03 / 00