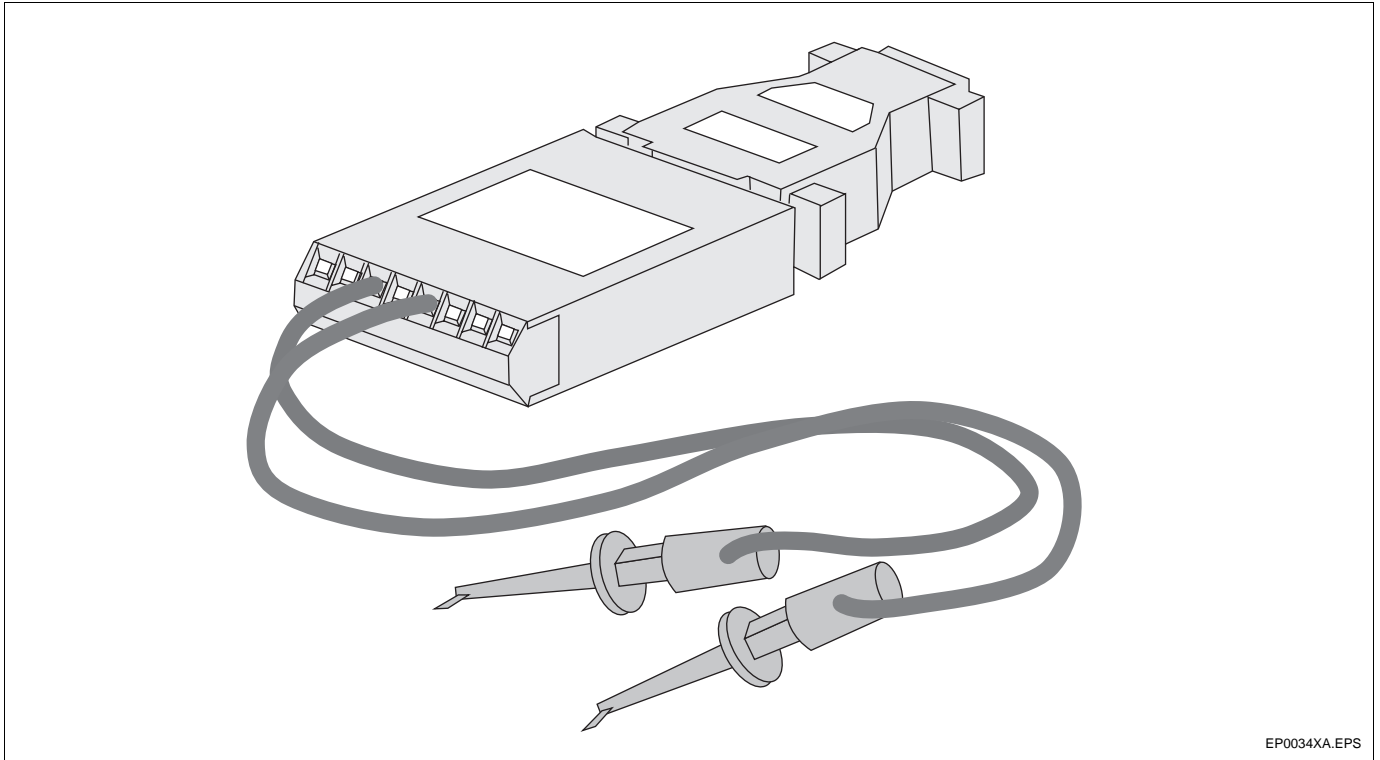


10/18-0.31 EN



- **Digital communication via frequency-modulated tap**
- **Communication using the standard “HART” protocol**
- **Digital signals**  
logical “0” = 2.2 kHz and logical “1” = 1.2 kHz
- **Communication tapped off analog 4...20 mA transmission signal**
- **Average-free tap, unimpaird transmission of the analog 4...20 mA signal**
- **9 or 25 pole sub-D socket for PC connection**
- **No potential separation between PC and connected device**

## General

FSK Modem II serves as a “translator” for digital communication between a PC and a transmitter/positioner. It links the PC and the transmitter/positioner without potential separation.

Communication is done by tapping at any point of the analog 4...20 mA signal link. No special attention has to be paid to polarity for the 2-pole tap. Please note that the devices are HART-compatible. i.e. they have certain internal resistance. Power for data tapping is supplied in parallel from the PC via the RS 232 C interface.

The modem has a 9 or 25 pole sub-D socket on the PC side and screw terminals with a 0.75 m cable and clip on the instrument side.

**Technical data**

**Electrical data**

Voltage  $V_{PP}$  = 0.6 V, average free  
 Current < 3 mA  
 Power max. 1.5 mW  
 Frequency 1.2 and 2.2 kHz

**Case**

Material Plastic  
 Protection IP 20  
 Connections 9 or 25 pole sub-D socket (PC side)  
 Screw terminal with 0.75 m cable and clip (instrument side)  
 Dimensions 55 x 55 x 17 mm  
 Weight approximately 0.1 kg

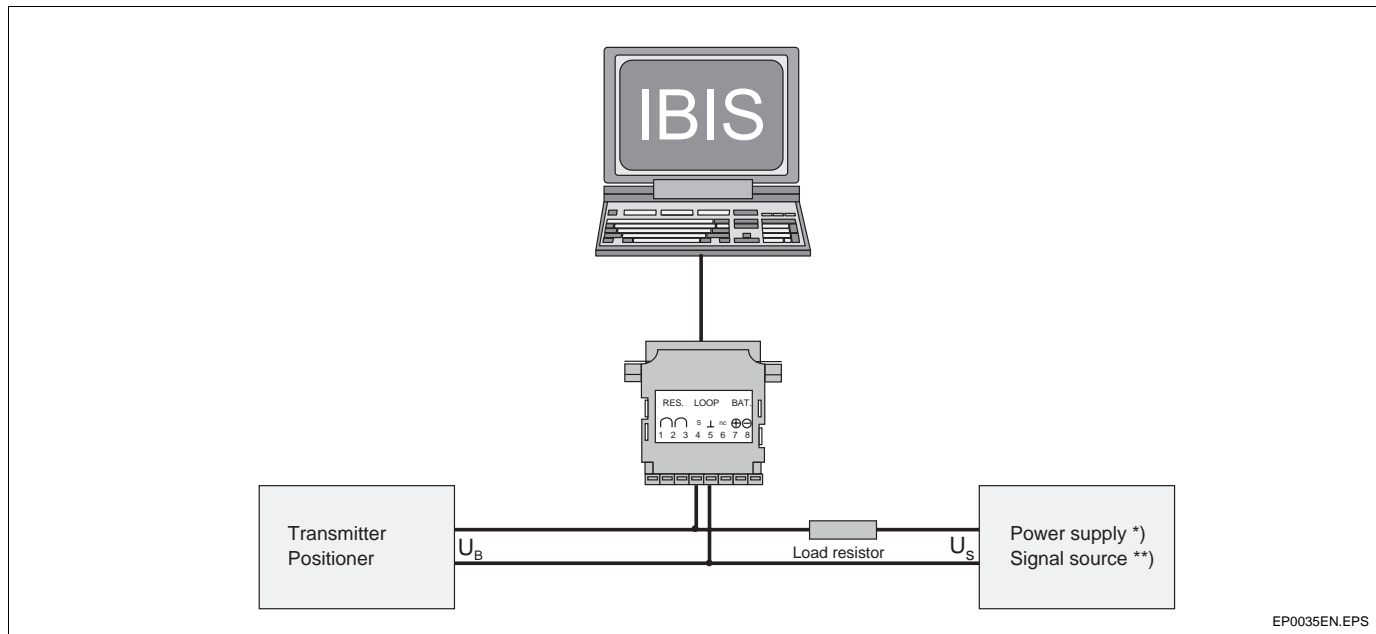
**Environmental capabilities**

Operating temperature 0...+45 °C  
 Storage temperature -20...+55 °C  
 Air humidity < 80 %

**Ordering information**

	Catalog No			
FSK Modem II	18391 - 0319237			

**Connection diagram**



EP0035EN.EPS

\*) Internal resistance for the supply unit 230 ... 250 ohms (resistance as external load impedance possible)  
 \*\*) Internal resistance for signaling unit  $\geq 10$  kohms

