

ifm electronic

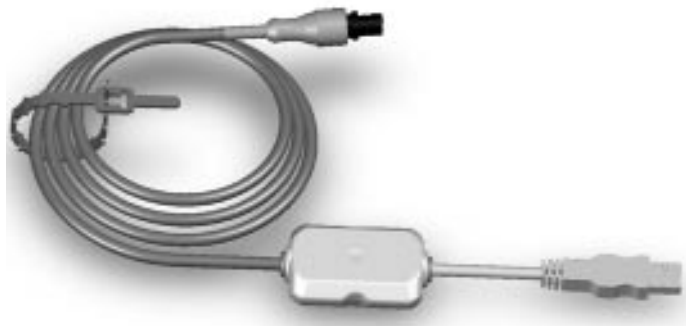


Operating instructions
IO-Link interface

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E30396

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1 Items supplied

- IO-Link interface
- CD-ROM with device drivers and FDT service program ifm Container
- Operating instructions

2 System requirements

- PC or Laptop with Microsoft Windows® 2000 / Microsoft Windows® XP / Microsoft Windows® Vista.
- One free USB 2.0 port.
- 1 MB free hard disk space.
- CD-ROM drive.

3 Functions and features

The interface connects sensors with communication capability to a PC and provides the following options:

- Reading of the current parameter setting.
- Parameter setting of the sensor.
- Reading of the current measured value.

The interface supports the IO-Link and the ifm-specific EPS protocol.

Prerequisite for communication with sensors: The ifm program library of the available DTM objects (it is part of the ifm Container) must be installed on the PC.



The interface with connected sensor requires the complete current provided by a USB port.

- ▶ Therefore only operate it directly on a USB port or on an active USB hub.

If the interface is connected via a passive USB extension or a passive USB hub, it is deactivated.



The sensor must not be connected to an additional parallel power supply. This can destroy the USB port.



Due to the properties of the Windows® operating systems correct functioning of several interfaces connected in parallel cannot be guaranteed.

4 Installation

The PC addresses the interface internally via a virtual COM port to ensure compatibility with older software.

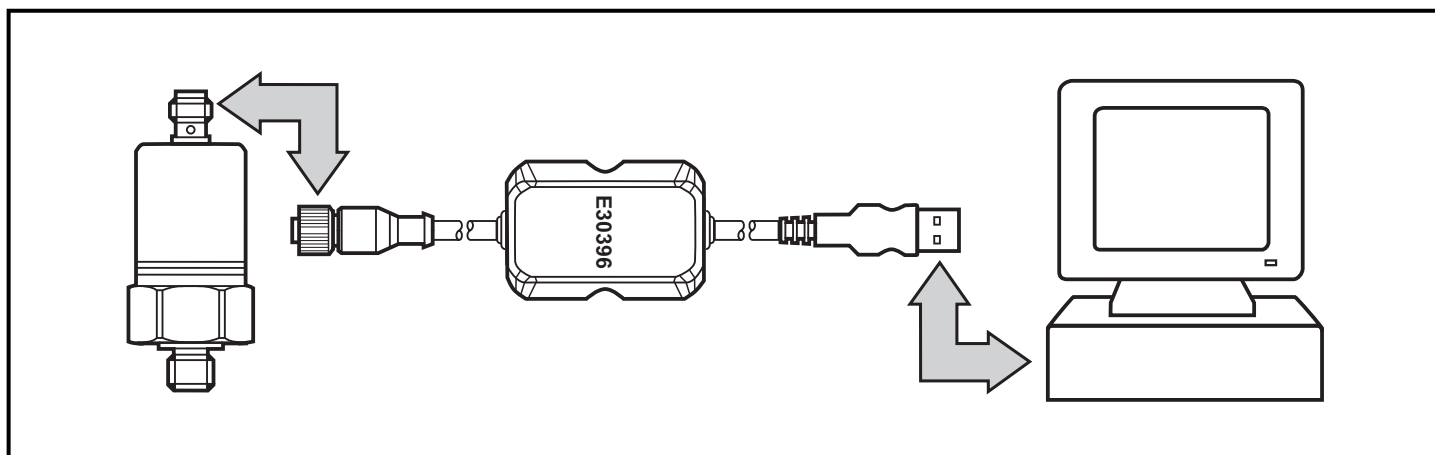
You must have administrator rights for the installation process.

Installation:

- ▶ Insert the CD-ROM into the drive.
- ▶ Connect the interface to a free USB port.
- > The Microsoft Windows® hardware wizard is started.
- ▶ Follow the instructions of the program. Make sure to select the following options:
 - Search for locally available drivers.
 - Selection of the driver from the inserted CD-ROM.
 - Automatic installation of the software.

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5 Operation



- ▶ Connect the interface to the sensor and to a USB 2.0 port of the PC.
- > After the initialisation time of approx. 5 s the interface supplies the sensor with operating voltage.
- > If the sensor is addressed via the FDT software, the interface determines the correct communication mode and starts the exchange of data.

If the sensor does not have a suitable communication protocol, there is no exchange of data. But the sensor continues to be supplied with operating voltage. This enables operation for testing or demonstration purposes.

6 Technical data

Input voltage:	5 V
Current consumption from USB port:	max. 500 mA
Supported communication protocols:	IO-Link 1.0 (4,800 and 38,400 bits/s) EPS (19,200 bits/s)
Supply voltage for the sensor:	24 V DC
Operating current of the sensor	max. 65 mA
Connection cable for the sensor.....	2 m
USB cable.....	0.4 m
Operating temperature	-25...45 °C
EMC EN 61000-4-2 ESD:	4 / 15 kV
EN 61000-4-3 HF radiated:	30 V/m (80...1000 MHz)
EN 61000-4-4 Burst:	2 kV; coupling clamp
EN 61000-4-5 Surge:	0.5 kV supply / 1 kV signal
EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)