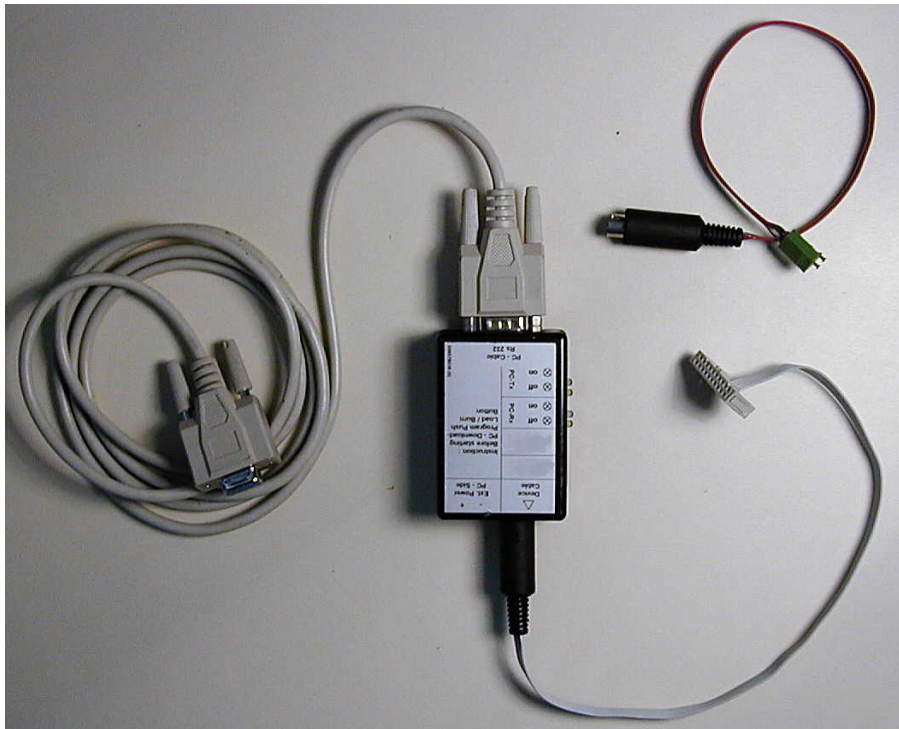


## EDC82 Modem for easy Configuration of Eckardt Field Devices



The EDC82 Modem connected on one side to the service connector of the device electronic and on the other side to the serial COM port of the computer and associated to the Software PC20 or FDT/DTM allows you to configure the intelligent Foxboro Eckardt instruments: SRD991, SRD960, SRD970, NAFLinkIT.

This EDC82 modem is specially designed for the persons of maintenance and OEM customers like valve manufacturers, to allow them an easy and fast configuration, independently of the communication protocol. With the EDC82 the problem of expensive tools to configure instruments for example with field communications PROFIBUS PA, FOUNDATION Fieldbus H1, HART or FOXCOM is bypassed.

The EDC82 modem permits also to configure device types, which are not designed for field communication with the same equipment as for the communicative device types is used, e.g. the device type SRD991-xDxx, intelligent positioner without communication.

For downloading an update of firmware releases to the herein named Eckardt field devices, please use the EDC85.

### FEATURES

- Common digital communication (based on FOXCOM protocol IT2, with 4800 bps) independent of the device option for field communication protocol.
- No external supply voltage required for the modem, if computer provides enough voltage at the serial port.
- Configuration of device types, which have no field communication option, e.g. SRD991-xDxx, with the full set of parameters, which also communicative device types have.
- Configuration through the user friendly software PC20 from Foxboro (Invensys)
- Configuration through standardized configuration tool software like FDT/DTM via PACTware.

**FOXBORO**  
**ECKARDT**

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## 1 CHARACTERISTICS

### 1.1 Features

Usable with configuration tools

PC20

FDT/DTM with VALcare or Valve Monitor DTMs



#### Devices supported:

Intelligent positioner without communication :

**SRD992** with cable connector type B

Intelligent positioner without communication

**SRD991-xD** with cable connector type A

Intelligent positioner with HART communication

**SRD991-xH** before release 3.0 with cable connector type B  
from release 3.0 with cable connector type A

Intelligent positioner with FoxCom communication (IT1 analog and IT2 digital)

**SRD991-xF and xE** before release 3.0 with cable connector type B  
**SRD991-xF** from release 3.0 with cable connector type A

Intelligent positioner with FOUNDATION Fieldbus H1 communication

**SRD991-xQ** with cable connector type A

Intelligent positioner with PROFIBUS PA communication

**SRD991-xP** with cable connector type A

Universal positioner all version

**SRD960** with cable connector type B

### 1.2 Technical data

Connecting cable to the PC	length 1.5 m
PC interface	RS 232 (9 pin)
Cable Connector type A	length 0,3 m
Cable Connector type B	length 0.3 m
Transmission	with galvanic isolation
Weight	200 g
Dimension	70x50x25 mm
Material housing	Plastic

1.3 Ambient conditions



**For use only in maintenance area out of hazardous area.  
Do not use the EDC82 out door. Only for use in door,**

Operating conditions

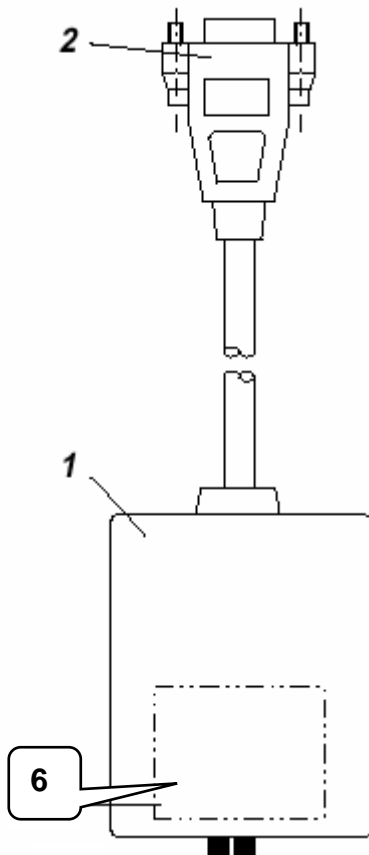
Ambient temperature 0°C + 50°C

1.4 Restrictions for Device Operation:



**EMC immunity of the field devices is reduced, while the EDCXX is connected.**

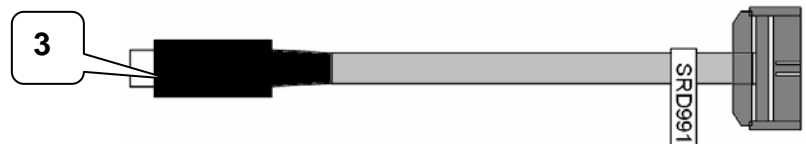
FUNCTIONAL DESIGNATION



1 Modem EDC82

2 Cable Connector 9 pin to the RS232 of the computer

3 Connecting cable type A (for positioner type SRD991)



4 Connecting cable type B (for positioner type SRD960)



6 Label

## 2 USE OF THE EDC82

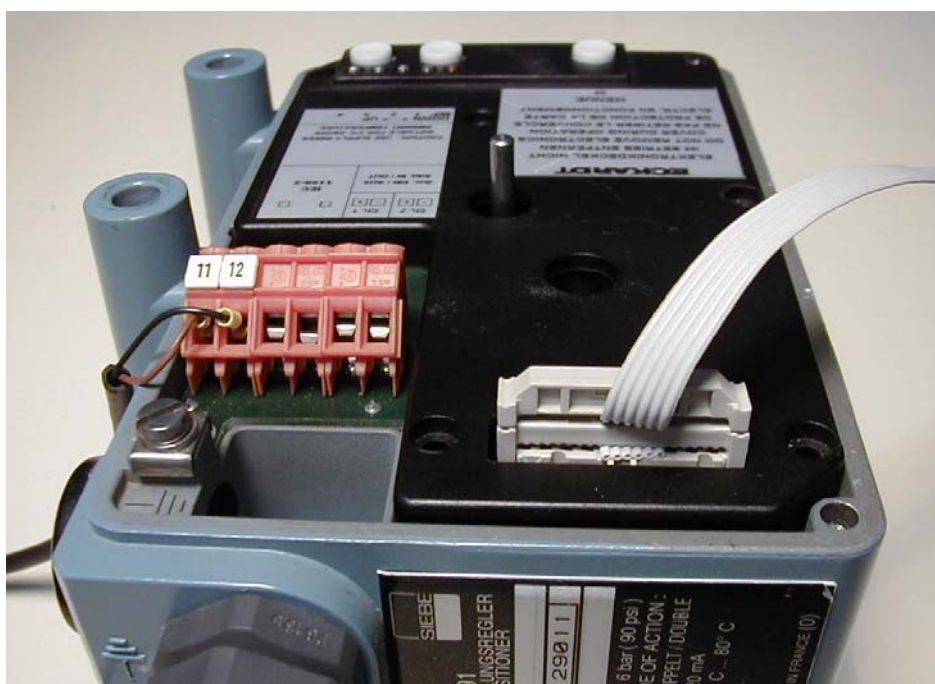
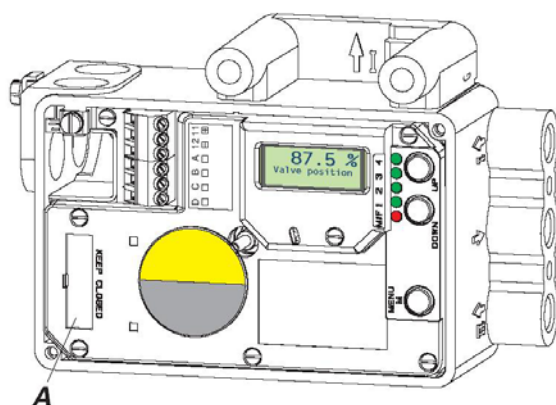
### 2.1 General information

The modem EDC82 can be use only in combination with the software PC20 from Foxboro (Invensys Group) or with any FDT-DTM software with the relative DTM.

### 2.2 Commissioning of SRD991 from revision 3.0 with the modem

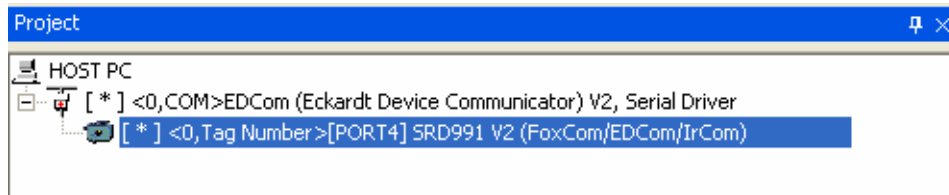
After connecting the EDC82 to the serial port of the computer, connect the EDC82 to the service connector of the device, like explained below. Use cable connector type A.

The service connector is on the front side of the electronic. Move only the sliding cover to connect you



Please pay attention to the pictures for the correct connection of the cable connector type A.

Launch your FDT Frame (like PActware) and create the below link:



If you don't have the EDCom DTM or the SRD991 DTM please contact us.

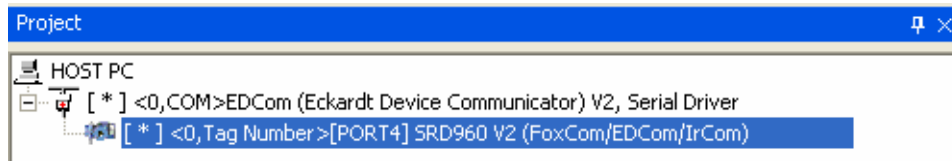
Be careful to give the correct port of communication!

Do **Connect** and just after **Load from device**.

Like this your are ready to read all data and to configure the device.



Launch your FDT Frame (like PActware) and create the below link:



If you don't have the EDCOM DTM or the SRD991 DTM please contact us.

Be careful to give the correct port of communication!

Do **Connect** and just after **Load from device**.

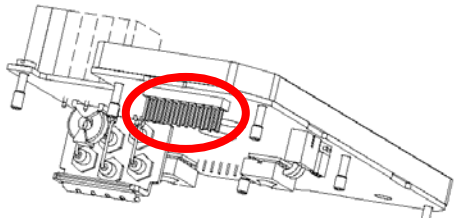
Like this your are ready to read all data and to configure the device.

**2.4 Commissioning of SRD991 / SRD992 before revision 3.0 with the modem**

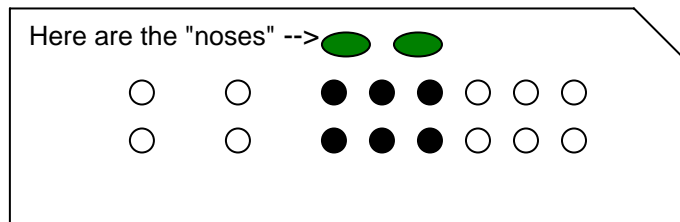
The service connector is on the back side of the electronic. You need to unscrew the complete electronic mother board (7 screws) and to connect you on the connector used by the option board.

Use cable connector type B.

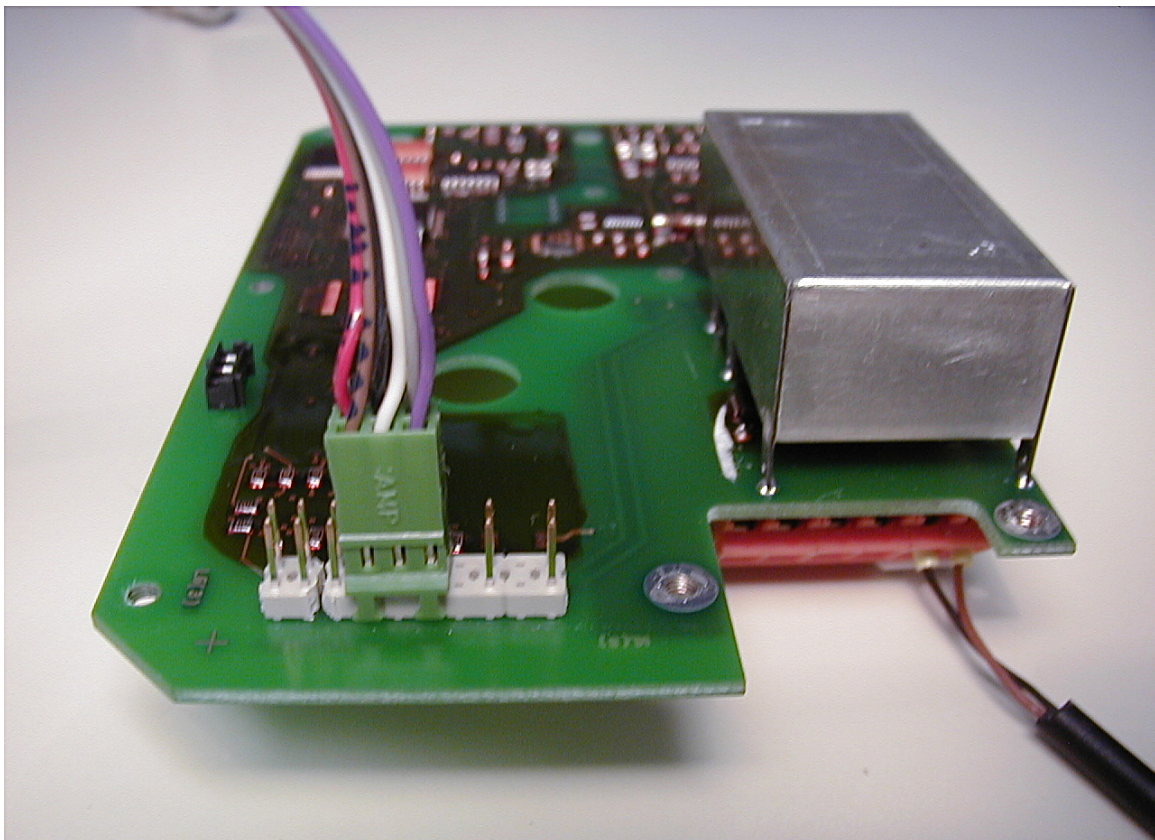
This connection is possible even if the device has an electronic not prepared for option board.



Here are the 6 pins used (2 "noses" are pointing to the edge of the printed circuit board) :

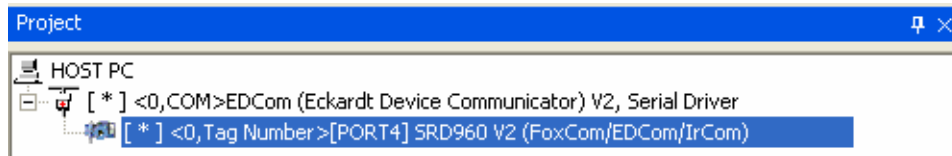


Please pay attention to the pictures for the correct connection of the cable connector type B.



**For SRD992, SRD991-xE or SRD991-xF**

Launch your FDT Frame (like PActware) and create the below link:



If you don't have the EDCom DTM or the SRD991 DTM please contact us.

Be careful to give the correct port of communication!

Do **Connect** and just after **Load from device**.

Like this your are ready to read all data and to configure the device.

**For SRD991-xH**

For this "old" device you need to declare a HART communication!

Launch your FDT Frame (like PActware) and create the below link:



You can use a standard HART DTM.

If you don't have the SRD991 DTM please contact us.

Be careful to give the correct port of communication!

Do **Connect** and just after **Load from device**.

Like this your are ready to read all data and to configure the device.

## General recommendations

### The Modem EDC82 gets power through the serial interface connection.

**NOTICE** : Some Laptops cannot provide enough voltage. In such a case you need to connect external power (12 - 24 VDC) to the 2mm-sockets at the modem EDC82.

### The Modem EDC82 with USB port.

EDC82 works well also in connection to a USB of a PC through adaptor (RS232/USB). We recommend the use of the UC-232A made by ATEN (<http://www.aten.com/>).

Please note that PC20 is not able to communicate through a USB port. In this case you need to use a FDT/DTM software together with our VALcare or Valve Monitor DTMs.

### Use of software PC20 for configuration

With PC20 select the communication protocol "FoxCom" for the communication through the EDC82, with FDT/DTM select the communication type "EDCom". Only for the "old" device SRD991 HART before Rev 3.0 you need to specify HART communication.

**NOTICE** : Please refer you to the MI of the PC20 for the use of this software.

**NOTICE** : For the configuration and for the diagnostic please refer you to the MI of the device

**NOTICE** : PC20 does not work through USB port.

### 3 HOW TO ORDER

Please order EDC82 Modem under the reference **EW426205012**

### 5 OTHER EDC8x- PRODUCTS

**EDC82** Communication adapter/level shifter/isolator for SRD9xx Configuration and Test

**EDC83** Programming adapter/level shifter/isolator for SRD9xx devices and for level transmitters 244 series, only for internal use of Invensys production people or for test engineers. EDC83 is no longer available and will be replaced by EDC85.

**EDC84** Programming adapter/level shifter/isolator for SRI990 with option position feedback or for SMI983, for Invensys internal use only. EDC84 is no longer available and will be replaced by EDC85.

**EDC85** Programming adapter/level shifter/isolator for SRD9xx devices, also for newer hardware revisions, than revision 3.3, it also replaces EDC83 and EDC84. The EDC85 must be operated always with external power (12-24V).

**EDC86** Programming adapter/level shifter/isolator for Foxboro Transmitter Fieldbus Interface for FISCO. It is for Invensys internal use only. The functionality is similarly to EDC85..

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