Field Communication
commubox FXA 192

RS-232C/RS-485 interface for transmitters with Rackbus RS-485 protocol

Application

The Commubox FXA 192 connects Rackbus RS-485 devices to the serial port of a personal computer. This allows them to be remotely operated by means of an Endress+Hauser operating program, e.g. Commuwin II.

The Commubox is powered by the power pack supplied.

Features and Benefits

- Simple connection of Rackbus and Rackbus RS-485 devices to a personal computer
- Central display and control of level, flow, temperature and analysis measurements
- Reliable communication over distances up to 1200 m
- Up to 25 field transmitters - in hazardous areas up to 10 transmitters - can be connected to a personal computer

Technical Data

- Power:
  external power pack 115 V/230 V, see Product Structure.

- Electrical connection:
  9-pin Sub-D connector for computer
  4 mm screw terminals for transmitter.

- Environmental conditions:
  nominal operating range: 0°C…+70°C
  storage: −20°C ... +85°C
  humidity: 0%...+95%
  (no condensation)

- Housing dimensions:
  190 x135 x 70 mm

- Communication PC - FXA 192
  baudrate 9600 bit/s; data bits 7;
  stop bits 1; even parity

Endress+Hauser

Nothing beats know-how
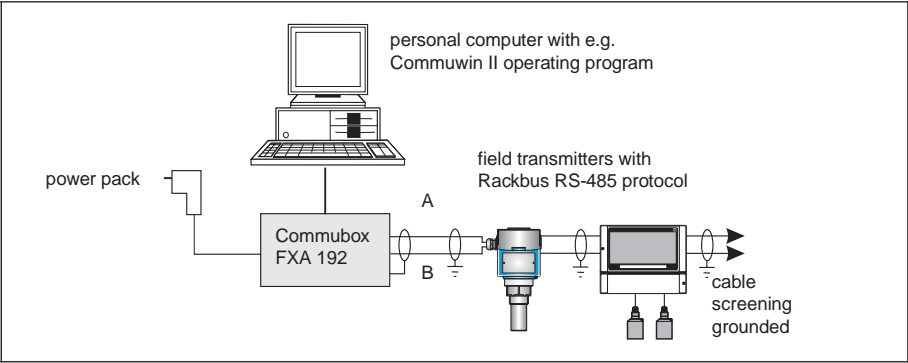
Electrical Connection

Connection Rackbus RS-485

- The Rackbus RS-485 bus line is connected to the sockets marked A and B, the screening to the socket marked ⊥.
- Use screened, twisted pairs with the following typical values/km:
  L' = 270 µH, CII' = 88 nF,
  R' = 43 Ohm, Cis' = 90 nF.
- Maximum bus length: 1200 m
  The bus screen must exhibit electrical continuity. Where possible, it should be grounded at both ends and at each device

Connection Rackbus

The two terminals marked "RACKBUS" are for service purposes only.

Scope of delivery

- Commubox FXA 192
- Serial cable for connection to PC
- Power pack, voltage range as per selected version.

Product Structure

Commubox FXA 192	
Commubox FXA 192-A with 230 VAC power pack	209 227-0000
Commubox FXA 192 -B with 115 VAC power pack	209 227-0001

Supplementary Documentation

- Rackbus System Information SI 014F/00/e

- Rackbus RS-485 Operating Instructions BA 134F/00/e

- Commubox FXA 191 Technical Information TI 237F/00/e

- Modbus gateway ZA 672 Technical Information TI 148F/00/e

Endress+Hauser

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