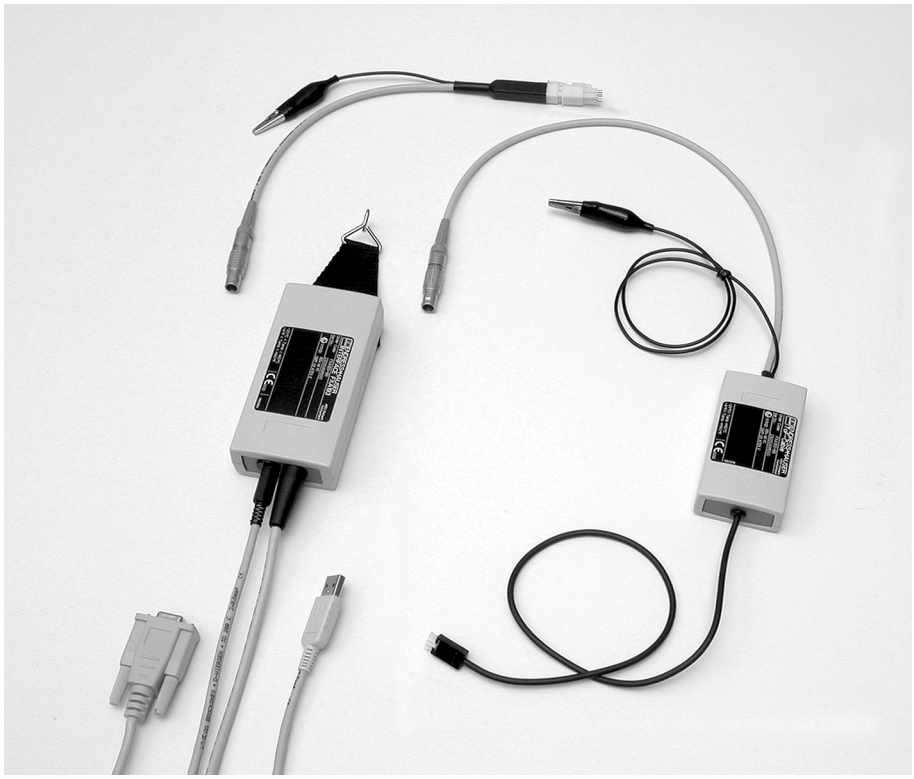
Technical Information
TI 063D/06/en
50105321

Field Communication
Service Interface FXA 193

Intrinsically-safe service interface for PROline flow measuring devices and ToF measuring devices for connection to an RS 232C



Features and benefits
- Easy connection of PROline and ToF devices to a personal computer or laptop
- Power supply via serial interface, USB or external plug-in power unit.
- Suitable for FieldTool-ToF-Tool Package
- Optionally for explosion-protected equipment.

Applications
The FXA 193 service interface connects PROline and ToF measuring devices to the RS 232C serial interface of a personal computer. This enables you to operate/ configure the measuring devices with the FieldTool-ToF-Tool Package service and configuration program from Endress+Hauser.

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Function and system design

System design

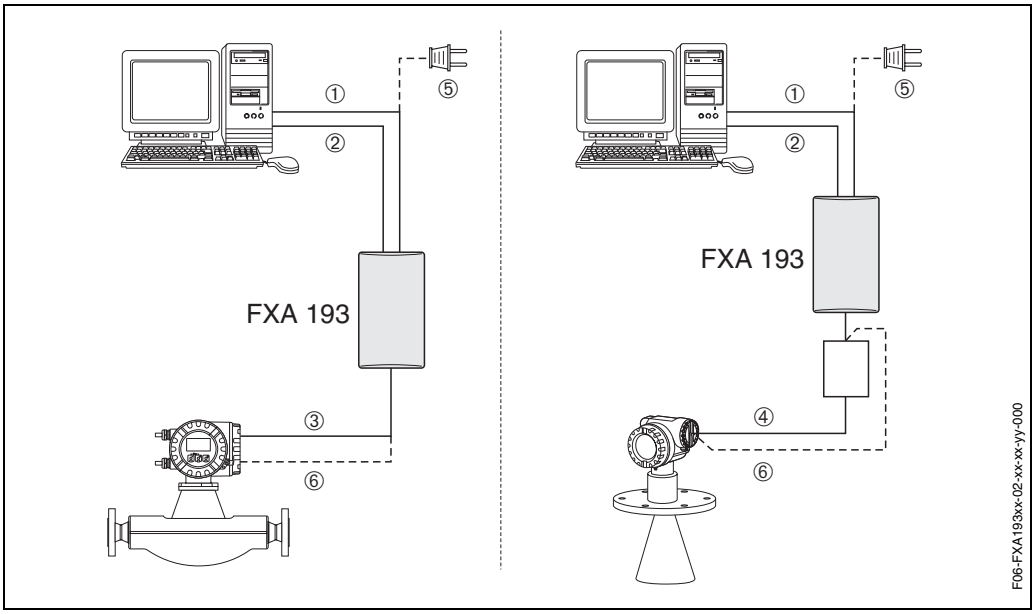

Fig. 1: System design for PROline devices (left) and ToF devices (right)

1 = USB cable connection (only used as additional power supply)
2 = RS 232 cable connection
3 = Connecting cable to PROline devices
4 = Connecting cable to ToF devices
5 = Power unit plug (optional)
6 = Ground cable of connecting cable (Caution! Don't damage any threads)

Output

Galvanic isolation

The device is galvanically isolated in the separate power supply and also in the inputs and outputs.

Power supply

Electrical connection FXA 193

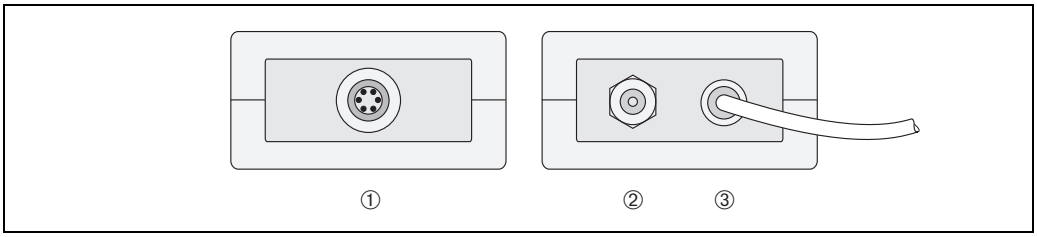

Fig. 2: Electrical connections

1 = Service interface (PROline)/ToF cable connector , 6-pin
2 = USB cable connector
3 = RS 232C cable connector, permanently mounted (on computer side: 9-pin DIN socket)

Cable connections

Data transmission rate on device side:
- Promag 23: 9600 Baud/s
- all other devices: 38400 Baud/s

Supply voltage

via RS 232C cable connection, USB cable connection or optionally via an external power unit plug with the following values:
U = 5 V min.; 18 V max.; I = 25 mA DC min.

Operating conditions

Installation

Length of connecting cable

- RS 232C connecting cable: 3000 mm
- PROline connecting cable: 340 mm (service interface)
- ToF connecting cable: 1140 mm
- USB connecting cable: 3000 mm

Environment

Ambient temperature range

-20 °C...+50 °C

Storage temperature

-40 °C...+85 °C; humidity: 0...95% (no condensation)

Degree of protection

IP 40

Mechanical construction

Design, dimensions

Dimensions

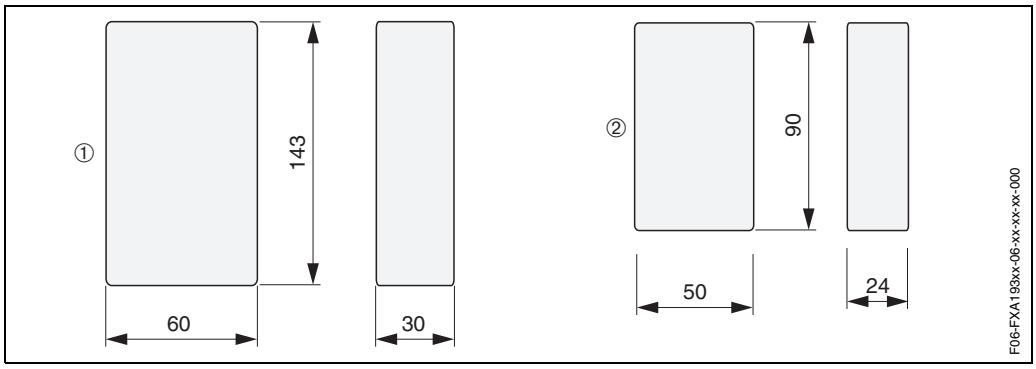

Fig. 3: Dimension drawings

1 = Dimensions of the FXA 193 service interface housing
2 = Dimensions of the housing in the connecting cable for ToF devices

Material

FXA 193 housing: plastic

Certificates and approvals

CE mark

The measuring system meets the legal requirements of the EC directives. Endress+Hauser confirms that the device has been successfully tested by affixing the CE mark.

Other standards and guidelines

EN 61010:
Safety requirements for electrical equipment for measurement, control and laboratory use

EN 61326/A1 (IEC 1326) “Emission in accordance with requirements for class A”:
electromagnetic compatibility (EMC requirements)

Ordering information

Scope of delivery

- Interface box with RS 232C connecting cable
- Separate power supply cable with USB plug connection.
- Optional: FXA 193 for connection to PROline devices (including 2 adapter plugs) or FXA 193 for connection to ToF devices.

You can obtain ordering information and detailed specifications for the order code from your E+H service organisation.

Accessories

- FXA connecting cable for ToF devices ATEX
- FXA connecting cable for ToF devices CSA, FM
- FXA connecting cable for ToF devices ATEX, CSA, FM
- FXA connecting cable for PROline devices, including 2 adapter plugs
- FXA USB connecting cable (separate power supply via PC)
- Adapter plug for connecting cable to PROline devices

Documentation

❑ Ex-additional documentation ATEX, FM, CSA

Subject to technical alterations

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