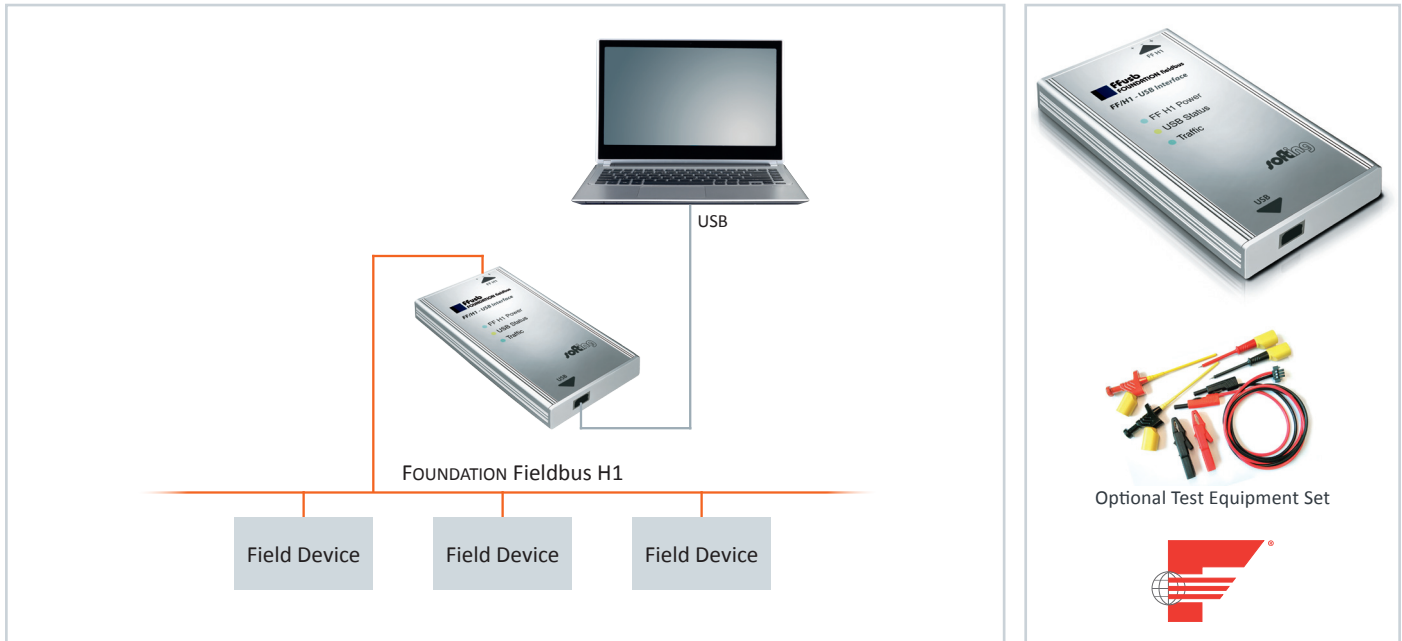


FFusb

USB Interface to Access FOUNDATION™ Fieldbus H1 Networks

FFusb provides direct access to FOUNDATION Fieldbus H1 segments and field devices. This USB interface does not interfere with any running process control system. The product includes a free Communication DTM and offers a programming interface for integration into proprietary systems.



Quick and Easy Access to FOUNDATION Fieldbus H1 Networks

- Direct access to FOUNDATION Fieldbus H1 networks from any notebook or PC via USB interface
- Ideal for shop floor usage due to small form factor and portability
- Temporary attachment to fieldbus and interaction with individual field devices
- Cost-effective and interference-free access to running plants, eliminating need to install expensive stationary equipment

Full Parameterization, Configuration and Monitoring Functionality

- Ideally suited as mobile device for tasks like pre-configuration and firmware updates
- Capable of configuring small FOUNDATION Fieldbus H1 networks and monitoring individual field devices, Function Blocks and Function Block parameters
- Combination of functionality associated with different products in only one device
- Ideal companion for everyday shop floor usage

Easy Integration into FDT Frame Applications and Other Systems

- High-performance FOUNDATION Fieldbus Communication DTM supporting all standard FDT frame applications
- Enabling data exchange between devices connected to FOUNDATION Fieldbus H1 network and Device DTM
- Support of compliant asset management systems
- Tight integration into individual configuration and device parameterization systems via API
- Direct FFusb integration into Yokogawa's FieldMate configuration tool, version R2.03 or higher

Technical Data

| | | |
|-------------------------------|-----------------------------------|---|
| Hardware | Processor | Renesas M32 |
| | RAM | 1 MB |
| | Flash | 1 MB |
| Software | FOUNDATION Fieldbus Functionality | <ul style="list-style-type: none">Automatic detection of LAS or "Visitor" roleAcyclic read/write access to FOUNDATION Fieldbus H1 field device parametersAcyclic read-only access to process values of FOUNDATION Fieldbus H1 field devices |
| Fieldbus Interface | Supported Protocol | FOUNDATION Fieldbus H1 |
| | Interface | FOUNDATION Fieldbus H1 network |
| | Connector | 3 pin screw connector, galvanically isolated |
| | Transfer Rate | 31,25 KBit/s |
| | LED Indication | FOUNDATION Fieldbus H1 power, USB status, traffic |
| Additional Information | Power Supply | Over USB (5 V, 300 mA) |
| | Power Consumption from Fieldbus | 13 mA |
| | Degree of Protection | IP20 |
| | Operation / Storage Temperature | 0 °C ... +55 °C / -20 °C ... +70 °C |
| | Housing / Dimensions | Aluminium / 69 mm x 24 mm x 124 mm |
| | Weight | Approximately 200 g |
| | Cooling | Convection, no fan |
| Certification | CE | EN 61000-6-2; EN 61000-6-4; EN 55022 Limit Class A |
| | FCC | Part 15 Subpart B Class A |
| | VCCI | Class 2 Information Technology Equipment 2002 |
| | Shock / Vibration | DIN IEC 68 - Part 2 |
| Application Interface | FDT / DTM | Communication DTM for FDT V1.2 conformant Frame application |
| | API | FFusb API Interface Description, V1.01 |
| System Requirements | PC / Notebook | USB interface |
| | Supported Operating Systems | Windows XP, Windows 7 (as of August 2011) |

Scope of Delivery

| | |
|---------------|---|
| Hardware | FFusb, USB 2.0 cable, FOUNDATION Fieldbus connector (3 pin screw connector) |
| Software | USB driver, API |
| Documentation | API manual, DTM manual, Yokogawa FieldMate Interface manual |

Order Numbers

| | |
|---------------|-------------------------------|
| EVA-MK-020210 | FFusb |
| EVA-ML-020211 | FFusb with Test Equipment Set |

Additional Products and Services

| | |
|---------------|---|
| APL-KL-020601 | Fieldbus Labkit |
| TSA-KK-023001 | Introductory Training "FOUNDATION Fieldbus" This training is not offered as a standard training course, but tailored to individual customer requirements. It is usually held as part of a workshop and in connection with an integration project. |

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