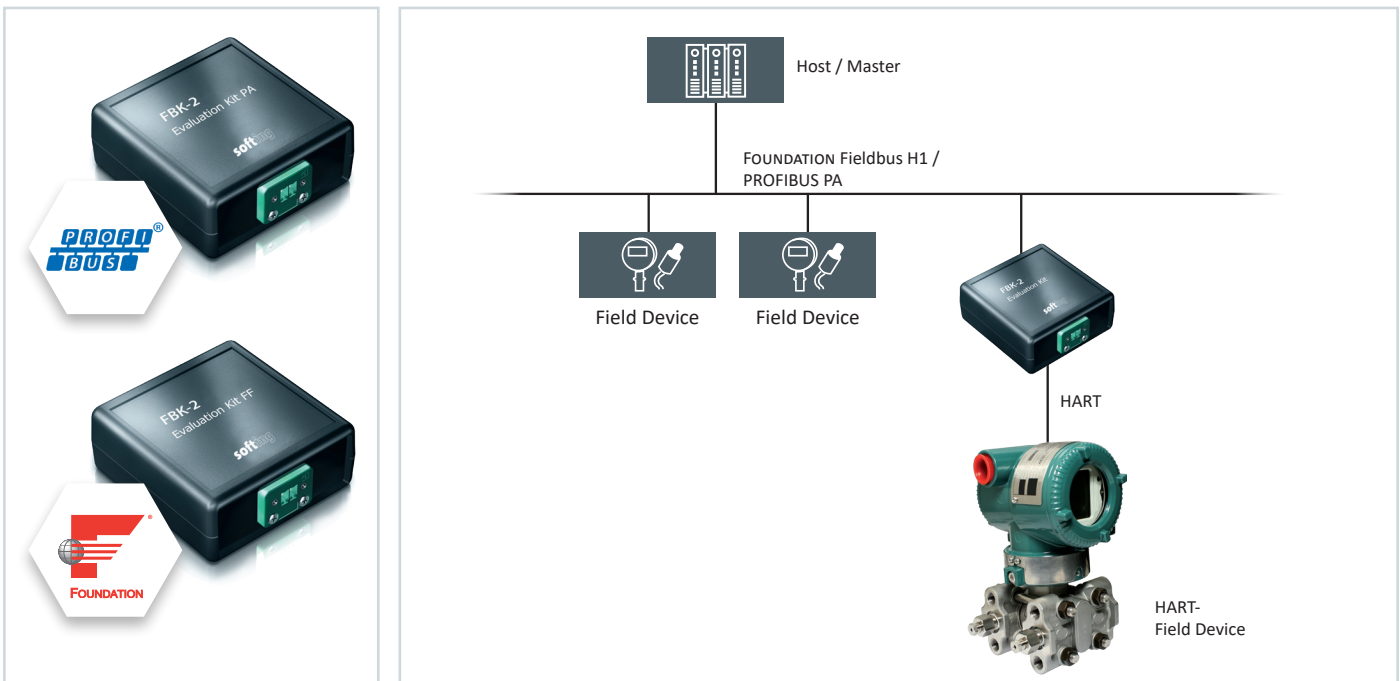


FBK-2 Evaluation Kit

Easy and Rapid Implementation of a Foundation™ Fieldbus or PROFIBUS PA Prototype

- Hardware and software for generating a Foundation Fieldbus (FF) H1 respectively a PROFIBUS PA (PA) communication interface for HART transmitters
- Designed for ease-of-use and requires no programming
- Qualified for further evaluation



Easy and Rapid Prototyping of Fieldbus Interface

- Turning any HART transmitter into an FF H1 or PA field device prototype
- Mapping a limited set of HART Universal Commands including process value to appropriate fieldbus block parameters
- Fast and easy integration of existing HART transmitter into fieldbus network for evaluation purposes
- Implementation through configuration only, without requiring any programming
- Applicable for proof-of-concept of the created FF and PA communication capabilities and as platform for gathering required experience regarding full fieldbus implementation

Ideal Basis for Full Fieldbus Implementation

- Based on hardware and software of Softing's FBK-2 product
- Ideal platform for developing fully functional FF and PA communication interface for field device
- Only minor steps required to develop complete field device after completion of evaluation

Direct Usage in Applications Without Specific Preventive Measures

- Elimination of direct contact and protection against electrostatic discharge by plastic housing
- Possible use of interface prototype directly within fieldbus laboratory network

Applicable for Fieldbus Network Simulation

- Simulation of process values (ramp, saw tooth)
- Simulation of Control in the Field applications (FBK-2 Evaluation Kit FF only)

FBK-2 Evaluation Kit

Technical Data

User Interface	Controls Status LEDs	Power on/off button, Bluetooth pairing button FIELDBUS (Fieldbus mode), HART (HART mode), Bluetooth (Pairing/Bluetooth active), Low battery, Power on
Interfaces and Connectors	USB	Speed: USB 2.0 Full Speed, Connector: USB Type C Electrical: Non intrinsically safe. Do not use inside hazardous areas. 5 V, 100 mA. Um = 253 V
	Bluetooth	BT mode: BT Classic, 2.4 - 2.478 GHz, Output Power: +8 dBm (maximum)
	Fieldbus	Connection: 4 mm banana type jacks (red/black), polarity has to be observed Physical Layer: according to IEC 61158-2, Type 1: 31.25 Kbit/s, voltage mode Nominal input current (Fieldbus): 10 mA in Bluetooth and regular USB mode 18 mA (with fieldbus voltage > 9,5V) for increased battery life time in USB mode (controlled by application) Fieldbus Terminator: No built-in fieldbus terminator
	HART	Connection: 4 mm banana type jacks (red/black) Physical Layer: HART FSK compliant modem
Operation in Hazardous Areas	Intrinsic Safety Parameters	EX ia IIB, Ui = 30 V or FISCO field device Isolation: 1500 VDC between USB and Fieldbus, 1500 VDC between USB and HART
Physical Properties	Dimensions (L x W x D)	175 mm x 74 mm x 32 mm
	Weight	330 g (incl. Batteries)
	Power Supply	Battery: 3 * Alkaline, IEC-LR6, nominal voltage 1,5 V For use in hazardous area: Energizer E91 or Duracell Procell MN1500. With batteries of other types or manufacturers certification is void. Fieldbus interface (Medium Attachment Unit) powered by fieldbus.
	Operating Temperature	-20°C .. +50°C
	Storage	Store batteries in a dry place at normal room temperature.
	Relative Humidity	< 95% rH non condensing
	Protection Class	IP 54 (if USB port covered with cap)
Radio permit		EU countries, USA, Canada and Japan, other countries on request

Scope of Delivery

Hardware	mobiLink, USB cable, fieldbus cable set with clips, 3 * Alkaline IEC-LRC6, USB memory stick
Software	PACTware, Communication DTM for HART, FOUNDATION Fieldbus and PROFIBUS PA (for FOUNDATION Fieldbus and PROFIBUS PA optional license required) FOUNDATION Fieldbus Configuration Tool ComConf (optional license required)
Documentation	On USB memory stick

Order Numbers

DBA-KM-020410	mobiLink for HART applications, including accessories
LRA-KK-021971	Licence for FF CommDTM
LRA-NN-021972	Licence for PA CommDTM
LRA-KK-020721	Licence for FF Configuration Tool ComConf
DBL-KM-020411	mobiLink HART incl. FF Comm DTM Licence
DBL-KM-020412	mobiLink HART incl. FF and PA Comm DTM Licence
DBL-KM-020413	mobiLink HART incl. PA Communication DTM Licence
HUA-AA-001012	USB hardlock for the flexible use of product licenses in combination with Softing License Manager

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