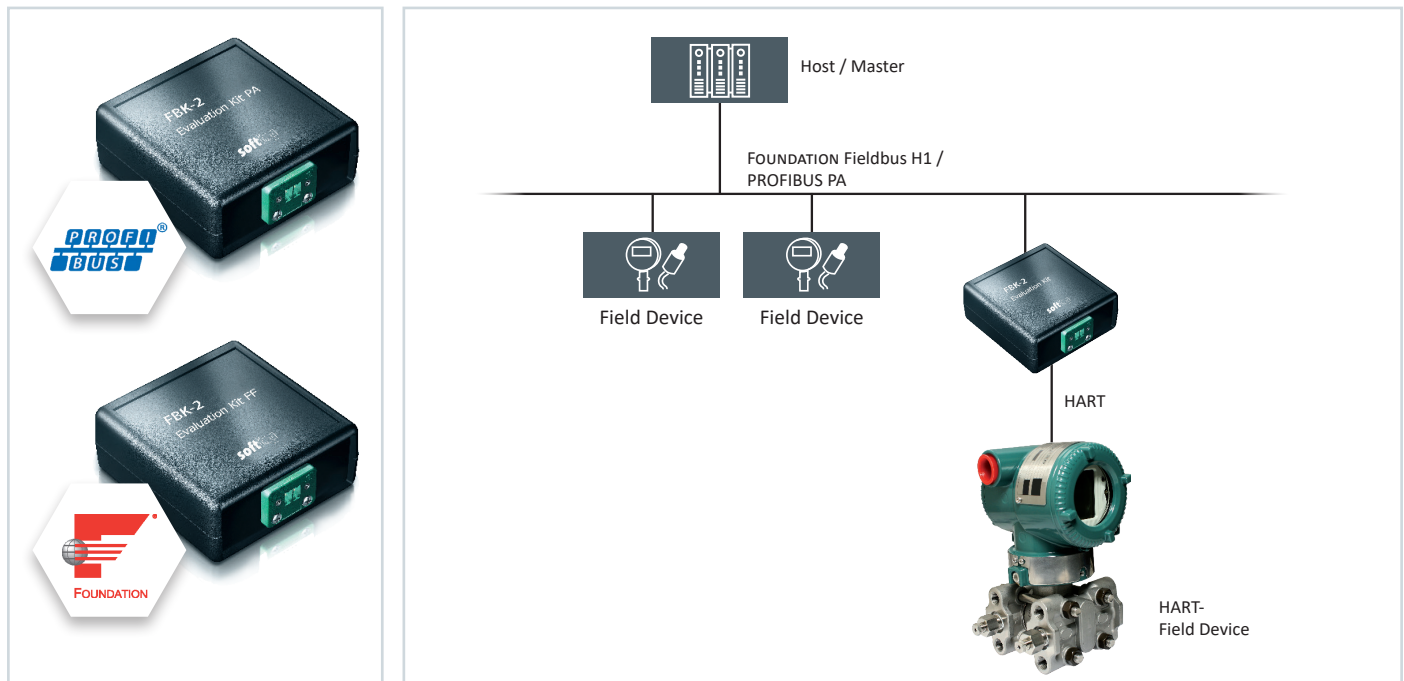


# FBK-2 Evaluation Kit

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

<b>Hardware</b>	Processor	Renesas M16C62P
	RAM	31 KB internal, 440 KB external SRAM
	Flash	384 KB internal
	Non-Volatile RAM	8 KB
<b>Software</b>	Resource Block resp. Physical Block	Standard
	Function Blocks	Analog Input (AI), Discrete Input (DI), Analog Output (AO), Discrete Output (DO), PID*
	Transducer Block	HART mapping
	Channels	HART process value
	Link Master Capability*	For configuration as Backup Link Active Scheduler (LAS) device
<b>Interfaces and Connectors</b>	HART Protocol	Support of Universal HART Commands #0, #3, #13, #18 and #48
	HART Interface	UART TTL
	Fieldbus Interface	According to IEC 61158-2, fieldbus-powered 26 mA rated current, max. 8 mA available for external use
<b>Physical Properties</b>	Connectors	Phoenix Contact MINI COMBICON Connectors
	Abmessungen	65 mm x 65 mm x 25 mm
	Betriebs- / Lagertemperatur	0 °C ... +55 °C / -20 °C ... +55 °C
	Relative Luftfeuchtigkeit	5 % ... 95 %, non-condensing
Montage	DIN rail mountable	

\* Only refers to FBK-2 Evaluation Kit FF

## Scope of Delivery

<b>Hardware</b>	FBK-2 in plastic housing
<b>Software</b>	Firmware, Device Description files resp. GSD files on CD-ROM
<b>Documentation</b>	Manual on CD-ROM

## Order Numbers

EVA-MK-020210	FBK-2 Evaluation Kit FF
EVA-ML-020211	FBK-2 Evaluation Kit PA

## Additional Products and Services

KSL-FK-020220	Starter Kit FF-START for FOUNDATION Fieldbus H1 Network Set-Up
KSL-NL-020221	PROFIBUS PA Starter Kit PA-START for PROFIBUS PA Network Set-Up
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.
TRA-PB-TECH	PROFIBUS Technology Training

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