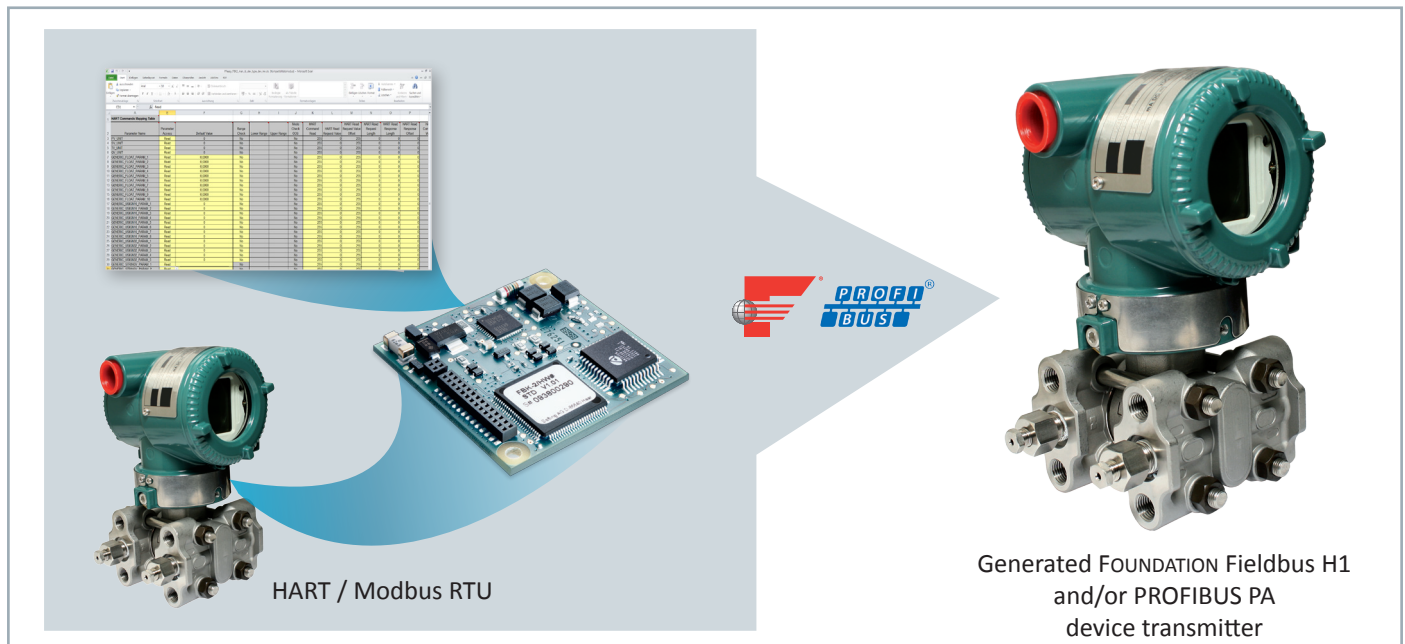


FFeasy / PAeasy

Easy Integration of FOUNDATION™ Fieldbus H1 or PROFIBUS PA into Existing Transmitters

FFeasy and PAeasy provide a fast migration path enabling transmitter devices for FOUNDATION Fieldbus (FF) H1 and PROFIBUS PA, respectively. The integration is based on Softing Industrial Automation's embedded module FBK-2 and requires little time and no programming. It is suitable for most HART or Modbus transmitter devices.



One Hardware - Two Protocols

- Physical preparation to run both, FOUNDATION Fieldbus H1 and PROFIBUS PA, thanks to FBK-2 embedded module integration
- Investment protection by adding support of second protocol as required

No Software Programming Required

- Ready-to-integrate implementation of fully functional transducer device
- Simple steps for setting parameters to suit customer-specific device:
 1. Entering HART or Modbus data into Excel spreadsheet
 2. Generation of flashable file
 3. Flash onto FBK-2 hardware

Fast and Easy Integration and Registration (Short Time-to-Market)

- Only HART and Modbus know-how required, respectively
- No detailed FOUNDATION Fieldbus and PROFIBUS PA expertise necessary
- Fast-track private labeling process for FieldComm Group registration

Access to New Markets

- Chance to participate in tenders requiring FOUNDATION Fieldbus H1 or PROFIBUS PA

Technical Data

Hardware	Processor	Renesas M16C
	RAM	31 KB internal SRAM, 440 KB external SRAM
	Flash	512 KB internal
	Non-Volatile RAM	8 KB
	Connectors	Samtec CLP-114-02-L-D, Samtec CLP-102-02-L-D
	Status LEDs	None
	Dimensions (HxWxD)	40 mm x 40 mm x 10 mm
	Current Consumption	10 mA ... 26 mA (selectable)
	Operating / Storage Temperature	-40 °C ...+80 °C / -40 °C ...+85 °C
	Relative Humidity	5 %...95 % (0 °C ...60 °C during firmware programming)
	Weight	31 g
	Mounting	Connector and screws
	Housing	None
	Protection Class	None
Interfaces	Fieldbus Interface	FOUNDATION Fieldbus H1 and PROFIBUS PA, respectively, according to IEC 61158-2, Power over Fieldbus
	Data Interface to Field Device	UART, I ² C, SPI
	Serial Communication Interface to Field Device	HART, Modbus RTU
Software	Functionality	IEC 61158-2, power supply over fieldbus
	Options	4 Analog Input (AI) Function Blocks, 1 Proportional Integral Derivate (PID) Function Block (FF only), up to 25 parameters
	System Requirements	Excel 2003, Excel 2007, Excel 2010
	Protocols	FOUNDATION Fieldbus H1, PROFIBUS PA
	Supported Operating Systems	Windows XP, Windows 7
Certifications	ATEX	E II 2(1) G Ex ia IIC, e II (1) D [Ex iaD]
	FM US	Class I, Division 1, Groups A, B, C and D, Temperature Class T4 Class I, Zone 0 AEx ia IIC Temperature Class T4
	FM Canada	Class I, Division 1, Groups A, B, C and D, Temperature Class T4 Class I, Zone 0 Ex ia IIC, Temperature Class T4

Scope of Delivery

Hardware	Embedded Communication Kit FBK-2, FBK-2 programming adapter for firmware download, starter kit
Software	Parameterization file, standard Function Block application, Function Block, Resource Block, Transducer Block, device description (DD file and GSD file, respectively), generation tool
Support	By phone, e-mail
Documentation	User manual, configuration template manual (English only), PID Function Block description
Certificates	Physical Layer Test certificate, ATEX certificate, FM certificate

Order Numbers

VEL-SK-020230	FEasy Kit for fast development of simple FOUNDATION Fieldbus transmitters
VEL-SL-020231	PAeasy Kit for fast development of simple PROFIBUS PA transmitters

Additional Products and Services

EAA-KS-021200	FBK-2 board, standard variant, with M16C63 processor
EAA-KS-021400	FBK-2 board, standard variant, with M16C63 processor (sample of 4 units)
ECA-KS-021201	FBK-2 board, standard variant coated, with M16C63 processor
EIA-KS-021202	FBK-2 board, standard variant with ATEX certificate, with M16C63 processor
EAA-KS-021403	FBK-2 board, standard variant with ATEX certificate, with M16C63 processor (sample of 4 units)
EBA-KS-021203	FBK-2 board, standard variant with edge metallization, with M16C63 processor

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softing

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