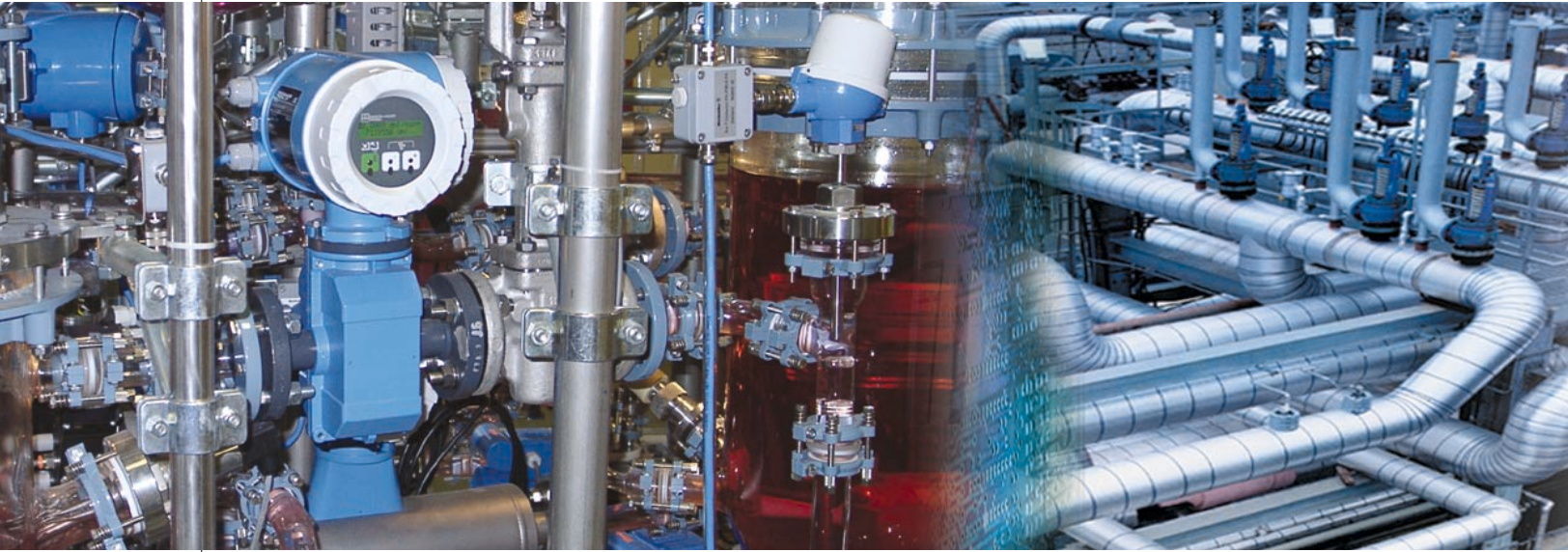




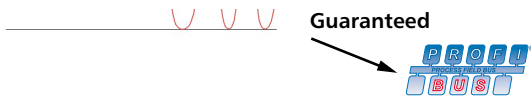
Fieldbus Kit for HART Devices

Industrial
Automation

Migrate HART devices to state-of-the-art fieldbus technology



- Ever lost a project because your devices do not support today's fieldbuses?
- Ever tried to implement a new fieldbus but found it to be too expensive?
- Ever found time-to-market for a fieldbus implementation unacceptable?



■ In just six weeks ...

You are the experts in process measurement ...



... Softing has the know-how in fieldbus communications

Have you ever lost a project because your sales people had no FOUNDATION™ fieldbus or PROFIBUS PA solution?

Almost all new plants being designed are implementing fieldbus technology. As a process measurement device manufacturer, you cannot participate in this business if you have no FOUNDATION fieldbus or PROFIBUS PA devices in your product portfolio.

Present market share of fieldbus technologies in the process automation marketplace is only 6%, resulting in an immense growth opportunity for those companies who have products that address the needs of these customers. Updating your products to support these technologies is not as difficult as you might believe.

We understand your needs

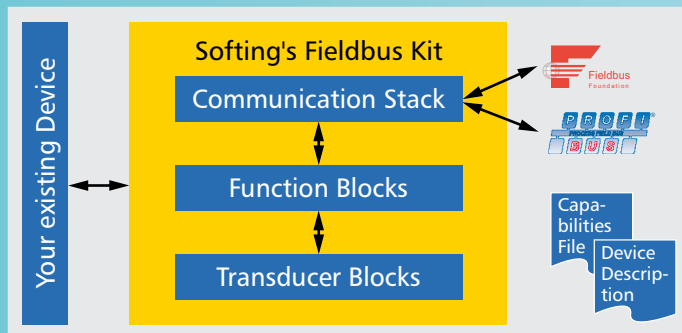
If you want to successfully access the FOUNDATION fieldbus or PROFIBUS PA market, you should make sure that these technologies are integrated into your devices as effectively and as economically as possible.

Your mission should be to overtake your competitors by offering state-of-the-art products. At the same time it is important to contain product costs and get your products to market quickly.

Make use of Softing's 25 years of experience

We believe that Softing is the perfect partner for supplying your industrial communications needs. In fact, so do a lot of others: about half of today's registered FOUNDATION fieldbus devices have protocol stacks from Softing. Our twenty-five years of experience are at your command.

... upgrade your HART Device ...



Low Cost!

The bundle contains everything you need to interface your existing device to FF H1 or PROFIBUS PA.

More than 4-20 mA digital interfaces

FOUNDATION fieldbus and PROFIBUS PA are fieldbus standards designed to meet the demands of rugged industrial process control applications.

In addition to providing device communication services, these fieldbuses also provide network and system management functions. They also support a large number of standardized embedded function blocks, distributing some control functions down to the devices. In addition, these fieldbuses use a comprehensive device description language.

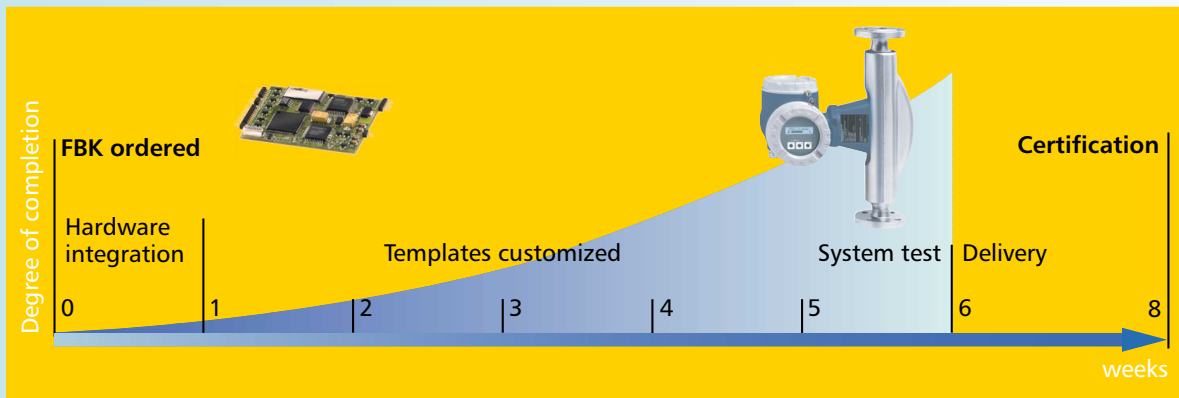
Softing's solution is proven

The Fieldbus Kit (FBK) from Softing is an off-the-shelf, proven solution for the rapid development of FF H1 and PROFIBUS PA field devices for Intrinsically (IS) and non-Intrinsically Safe (IS) environments. It can be used in conjunction with your existing HART slave device to create a complete fieldbus product. The FBK is small enough to be integrated into most existing device housings.

The least expensive way to get on the bus

The kit contains all of the low-cost hardware electronics necessary to build the bridge from your HART device to the H1 or PA world. It is bus-powered and pre-certified for IS operation according to ATEX. Because the hardware is ready-to-use, no costs for fieldbus physical layer testing are necessary. The board is fully designed to the specifications of the Fieldbus Foundation and the PROFIBUS Trade Organization and comes ready for all necessary conformance testing.

... to a new fieldbus technology



Quick-to-Market!

Software development is our business

Fieldbus devices require standard and customized software. The FBK provides both capabilities. There are ready-made templates that can be customized to provide unique features to your application-specific device. The commands of your existing HART device are mapped right through to the H1 or PA side. The kit also handles essential user-defined commands.

Hardware integration

During a detailed consultation with Softing, your needs will be discussed and you will be ready to order your kit. When your kit arrives, you will be ready to begin the integration of the fieldbus technology into your existing hardware. The connection point will be between the HART modulator and the device hardware.

Customizing the templates

After completing the hardware integration of your new fieldbus device, it is time to begin to modify the ready-made templates according to the existing HART commands and your specification.

In addition to the device, required Device Description files need to be built for FF or PROFIBUS registration and the later commissioning of the device by a configuration tool. The cost of building these files is included in the kit.

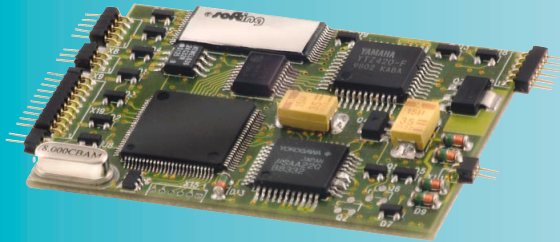
System test

Upon request, Softing can provide engineering services to integrate the customized software for your application. In this case, we will also commission the target hardware and test its basic functionality. We can also provide internal conformance and interoperability testing.

Certification

As a world leader in industrial communications technologies, Softing can take care of all organization certification and interoperability testing. We can even support you with on-site certification assistance, upon request.

... a low-cost, easy solution



**Our track record:
About half of today's
registered FF devices
have Softing's protocol
stacks inside.**



Softing, global partner in industrial communications

Wherever you are located, Softing's global sales and support network is ready to provide expert assistance and ideas. Our broad range of supported fieldbus technologies enables us to provide complete, technologically superior solutions that perfectly fit our customer's requirements.

Do you need custom-made hardware?

We are able to offer customized hardware solutions based on the design of the FBK. If you have special requirements regarding packaging, interface electronics, the need of an I²C bus, etc. we can help. After all, no one has helped more companies embed fieldbus technologies in their products than Softing.

1 solution - 2 supported fieldbuses

In terms of physical bus characteristics, both FOUNDATION fieldbus and PROFIBUS PA use the H1 standard according to IEC 61158-2. Also the necessary function blocks are very similar. Therefore, with our protocol stacks it is only a small step to get your new fieldbus device to work with both technologies.

How about classic protocol stack integration?

We can help with classic fieldbus protocol stack integration based on your own hardware. Perhaps in the future your high volume of business requires reducing your product costs. Changing from the FBK solution to an embedded, all-in-one solution is easy because they are both based on the same interfaces and protocol stacks. Your investment in the kit solution will always be protected.

Training by world-class experts

An important part of many product design efforts is to ensure that your engineers are up to speed with the latest developments in technology. We have fieldbus experts available to provide customized training for device developers or engineers and technicians responsible for commissioning and maintaining systems.



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