

FIM-110 FF

Preassembled Interface Module for FOUNDATION™ fieldbus Integration

The FIM-110 FF facilitates the integration of FOUNDATION fieldbus (FF) into legacy plants and Modbus control systems. It is delivered ready-to-use and allows powering the connected field devices via its power supply.

READY-TO-INSTALL FF INTEGRATION

The FIM-110 FF provides the functionality of an FF interface module to plant operators and system integrators. It allows including up to four FOUNDATION fieldbus H1 segments with as many as 64 field devices into Modbus RTU based legacy plants or into control systems supporting Modbus TCP. The FIM-110 FF contains the Softing gateway and Linking Device FG-110 FF, but also includes additional components required for an interface module like power conditioners or an RS232/RS485 interface converter for Modbus communication, all within one housing.

ACCESS POINT FOR USING ADDITIONAL FUNCTIONALITY IN FF SEGMENT

The FIM-110 FF can be used as a key component for implementing additional automation functionality in the FF section of the plant. For instance, asset management systems (e.g. Emerson's AMS) and Field Device Tool (FDT) frame applications (e.g. SMART VISION, FieldMate, Field Device Manager, or PACTware) can be included using the FIM-110 FF as access point. Thus remote tasks such as setting individual parameters of field devices connected to the FF network, determining the actual device status, or accessing available alarms and events of these devices can be performed based on the FIM-110 FF.

MINIMAL WIRING EFFORT DUE TO POSSIBLE MOUNTING CLOSE TO THE PROCESS

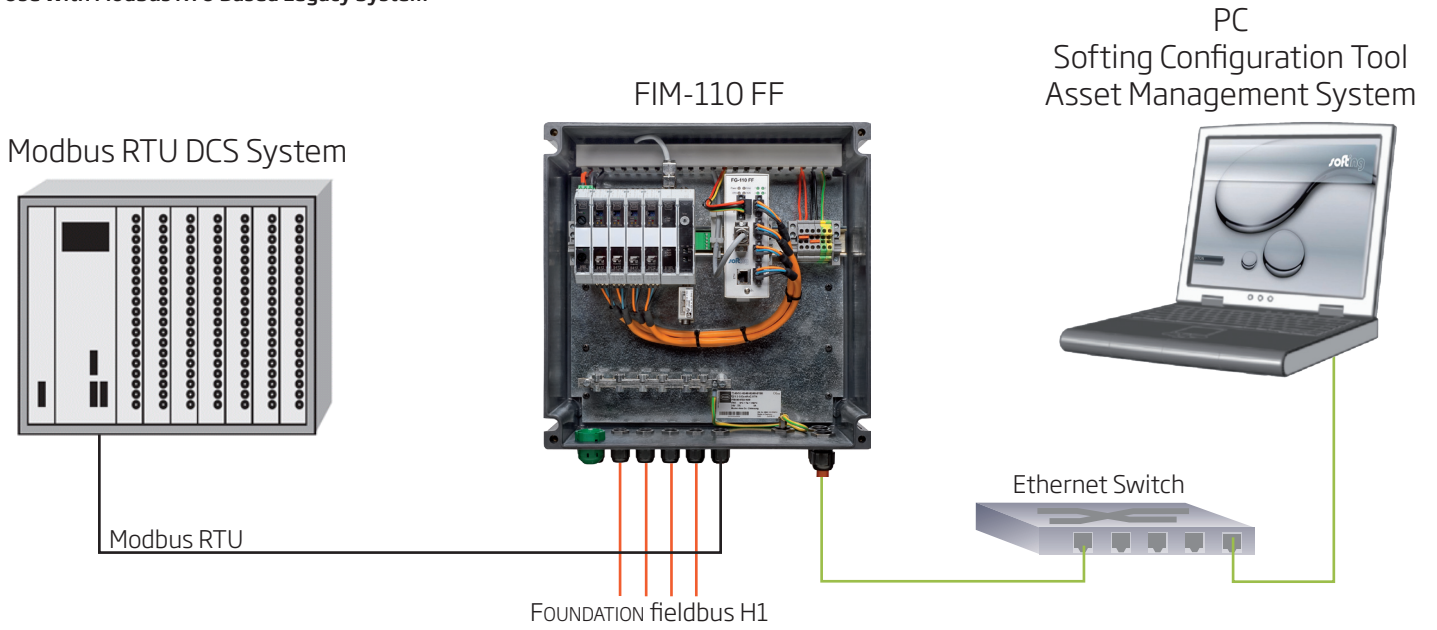
The FIM-110 FF comes with an IP65 rated housing. Together with the appropriate available certificate for use in explosive environments, this allows field-mounting the module close to the process. As a result, only minimized cabling is required.

CUSTOMER BENEFITS

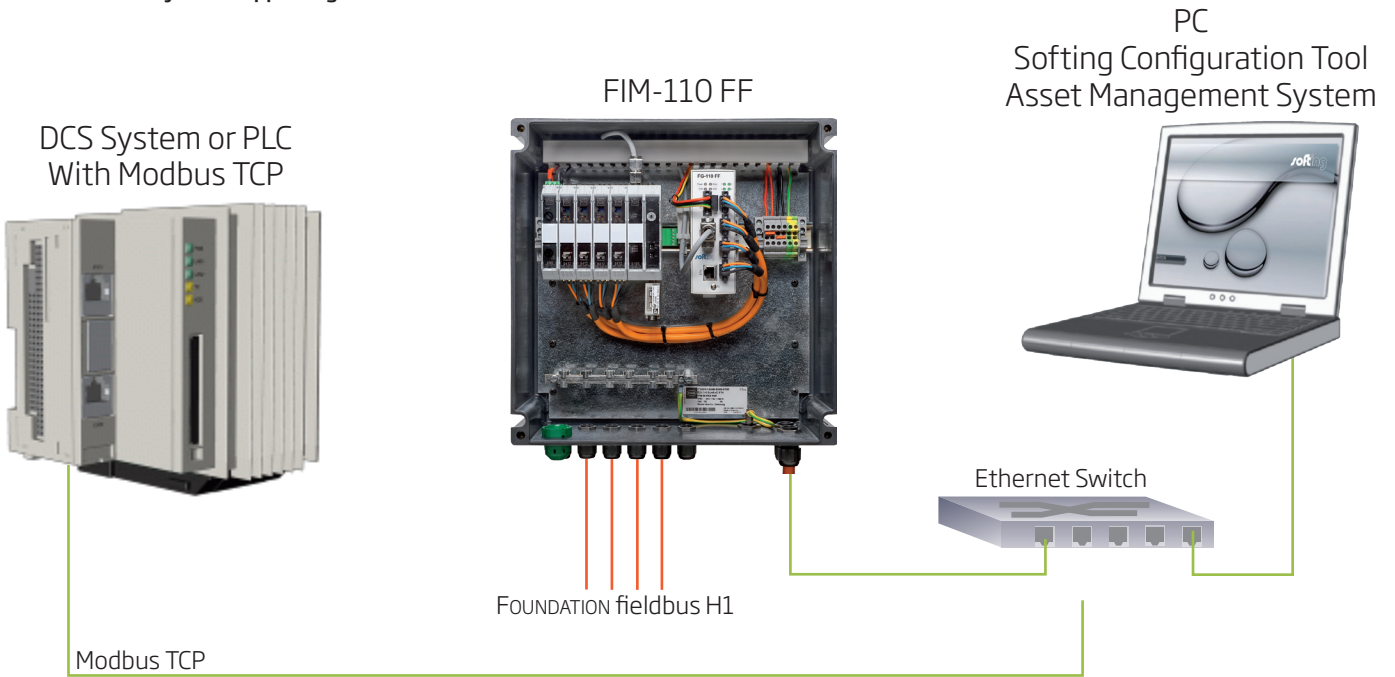
- > FF Integration Into Existing Plants
- > Implementation of Additional FF Functionality
- > Minimal Wiring Effort



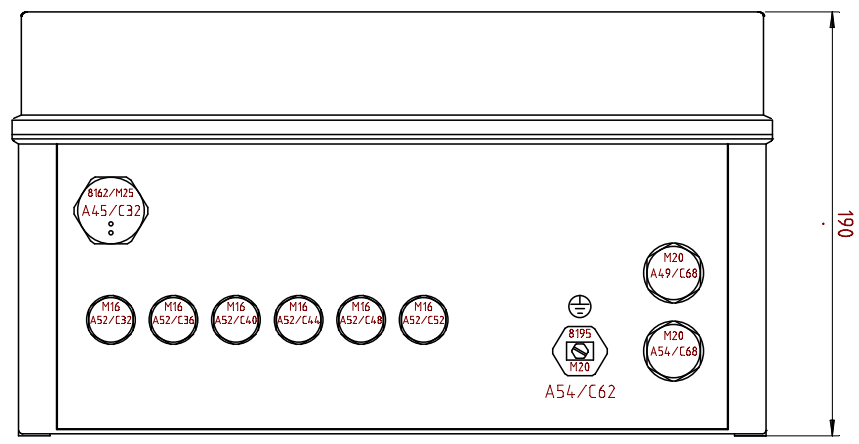
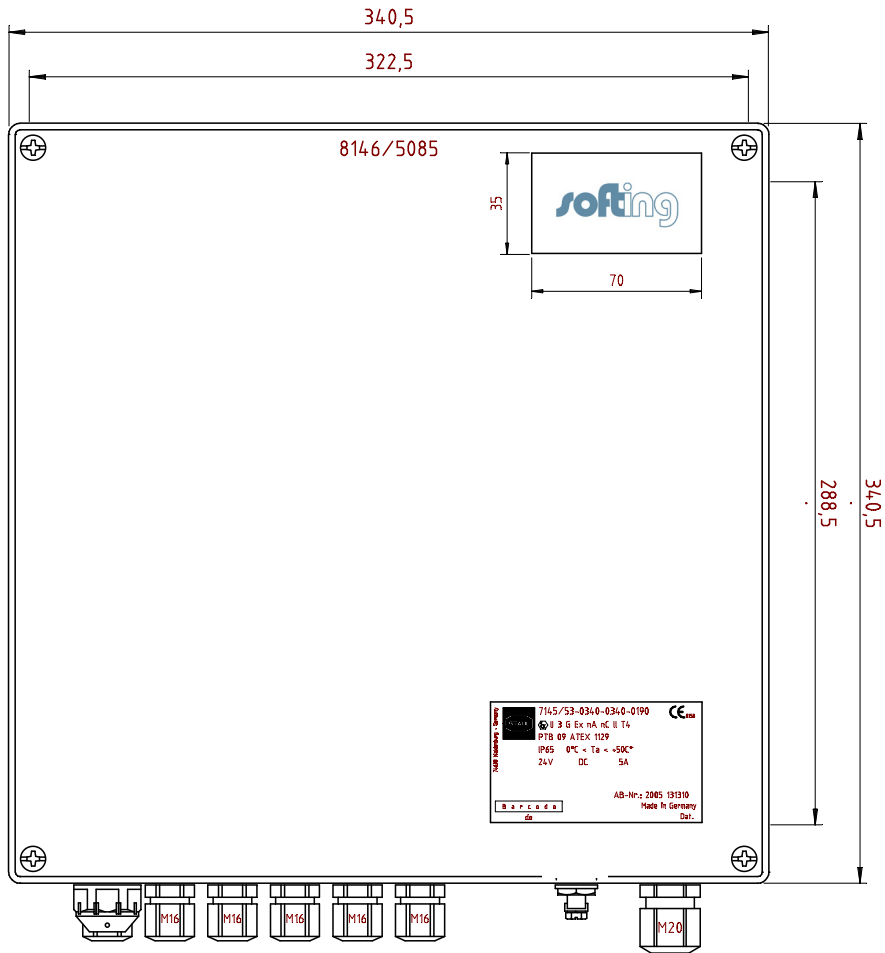
Use With Modbus RTU Based Legacy System



Use With Control System Supporting Modbus TCP



DIMENSIONAL DRAWING



All dimensions are given in millimeters [mm].

TECHNICAL DATA

Communication	
FOUNDATION fieldbus H1	4 FOUNDATION fieldbus H1 Segments (each segment is capable to operate independently as Link Master and/or Time Master, if required) Transfer Rate: 31.25Kbit/s Connectors: 3-Position Screw Connection, Galvanically Isolated
FOUNDATION fieldbus HSE	100BASE-TX/10BASE-T, Automatic Recognition Connector: RJ45
Modbus TCP, Modbus RTU	Assign Registers to Process Values Using TAG Parameter of Analog Input Function Block
Serial Interface RS232	9-Pin D-Sub Female Connector Transfer Rate: 1.2Kbit/s...115.2Kbit/s Galvanically Isolated
Physical Properties	
Dimensions (W x H x D)	340.5mm x 340.5mm x 190mm (13.4" x 13.4" x 7.5")
Operating Temperature / Storage Temperature	0°C...+55°C / -20°C...+70°C
Relative Humidity	0%...95%, Non-Condensing
Cooling	Convection, No Fan
Degree of Protection	NEMA 4X / IP65
Power Supply	24VDC (±20%), Typically 600mA
Product Certifications	
CE	EN61000-6-2, EN61000-6-4, EN55022 Limit Class A
Electro Magnetic Compatibility (EMC)	FCC Part 15 Subpart B Class C, VCCI Class 2 Information Technology Equipment 2002
Shock/Vibration	DIN IEC68 Part 2
Hazardous Location Certifications	UL: UL508, CSA C22.2 No. 14-M95 Industrial Control Equipment ATEX: II 3G Ex nA IIC T4 Gc

SCOPE OF DELIVERY

FG-110 FF	
Hardware	Fieldbus Interface Module FIM-110 FF in IP65 Enclosure, Supporting the Following Options: - Modbus RS-232 and Modbus RS-485 Connection - Four Power Conditioners and Terminators - CM 20 Conduit Adapter
Software	Windows-Based FF Configuration Tool, Web Server for Modbus Mapping Configuration
Documentation	Documentation on CD-ROM
Documents	Certification Documents

ORDER NUMBER

GLA-YK-020121	FIM-110 FF
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CUSTOMER-SPECIFIC FIELDBUS INTERFACE MODULE

In addition to the standard fieldbus interface module FIM-110 FF, Softing also offers customers to build a custom fieldbus interface module that addresses their specific requirements. A customer-specific fieldbus interface module is based on the Softing FG-110 FF product and its available options. Details regarding the FG-110 FF product and the supported fieldbus interface module options can be found in the FG-110 FF datasheet.

ADDITIONAL PRODUCTS AND SERVICES

OPC-MODB-TCP	Modbus TCP OPC Server
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Softing Industrial Automation is a world-leading provider of industrial communication products and technologies used with devices, controls, and systems in manufacturing and process automation applications. Our products are tailored to the requirements of system integrators, device vendors, machine and equipment manufacturers as well as end users and are known for its ease of use and functional advantages.

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