

FG-100 FF to Modbus/TCP Gateway

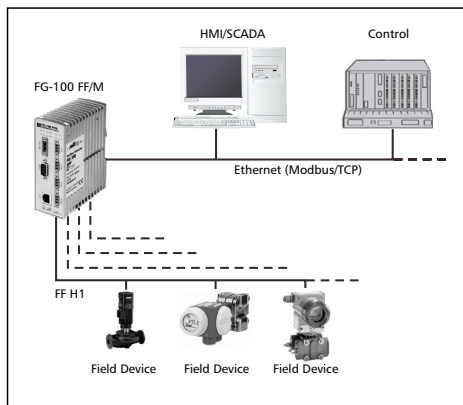
Industrial Automation

Connect FOUNDATION™ fieldbus H1 Devices to Modbus/TCP



Don't miss an entirely new market!

FOUNDATION™ fieldbus is one of the fastest growing technologies in the process automation world. Control system manufacturers (like PLC vendors) are facing the challenge of building complex and expensive interfaces for their equipment, in order to participate in this emerging market. Softing's new fieldbus gateway FG-100 FF/M now allows users to connect existing FF H1 networks directly to Modbus/TCP client and server.



FG-100 FF/M connects FF H1 devices to Modbus/TCP control level architectures

It saves You Money ...

There is no need for a time-consuming and expensive development effort to create a dedicated H1 interface (the classical way of enhancing control equipment for new markets).

... and Time ...

Get started in just a couple of minutes. Connect the Modbus/TCP port of the control device (e. g. a PLC) with the corresponding port on the FG-100 FF/M gateway. Then connect the FG-100 FF/M with up to four FF H1 networks. Configure each H1 connection of the gateway like any other device on the H1 network. Write your PLC program. – Done!

... and it is totally hassle free!

The FG-100 FF/M acts like a regular field device and is configured via standard function blocks. This enables the user to get I/O data in and out of the gateway via the drag- and drop functionality of off-the-shelf configuration tools.

Linking two worlds made easy

A fixed mapping table takes care of routing the data between Modbus/TCP and the H1 networks. No knowledge of the "other" side's technology is required on each side of the gateway. All device commissioning issues and diagnostics are handled by built-in html pages that can be accessed by any web browser.



Hardware	FG-100 FF/M
CPU	MPC 857, 100 MHz
RAM	64 MB SDRAM
Flash	8 MB

Fieldbus Interfaces

Supported protocol	FOUNDATION fieldbus H1
Interfaces	4 H1 networks
Connector	3-position screw connection (two-piece), galvanically isolated (transformer)
Transfer rate	31.25 kbit/s
LED indicators	<ul style="list-style-type: none"> ■ Power-On ■ Activity-LED per interface
Functionality	4 field devices (one per interface) with configurable I/O function blocks

Ethernet Interface

Supported protocols	Modbus/TCP (for configuration: HTTP, FTP)
Ethernet	<ul style="list-style-type: none"> ■ 100 BASE-TX/10BASE-T ■ 100 Mbit/s and 10 Mbit/s with automatic recognition
Connector	RJ45
Functionality	Modbus/TCP client and server with fixed memory blocks for discrete inputs, coils, input registers and holding registers

Additional Interface

RS 232	<ul style="list-style-type: none"> ■ 9-pin Sub-D socket ■ Transfer rates 1.2 Kbit/s to 115.2 Kbit/s ■ Galvanically coupled
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Further Information

Power supply	24 V (±20 %) DC; 0.2 A typ.
Degree of protection	IP 20
Ambient temperature	0°C ... +55°C
Storage temperature	-20°C ... +70°C
Dimensions (W x H x D)	47 x 131 x 111 mm (1.9" x 5.2" x 4.4")
Cooling	Convection, no fan
Mounting	Mounting rail 35 mm

Registration

CE: EN 61000-6-2; EN 61000-6-4; EN 55022 Limit Class A
FCC: Part 15 Subpart B Class A
VCCI: Class 2 Information Technology Equipment 2002
Shock/Vibration: DIN IEC 68 – part 2
UL 508; CSA C22.2 No. 14-M95 Industrial Control Equipment

Scope of Delivery

FG-100 FF/M, Installation Manual, Device description files
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System Requirements

Web-Browser for configuration and diagnostics

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