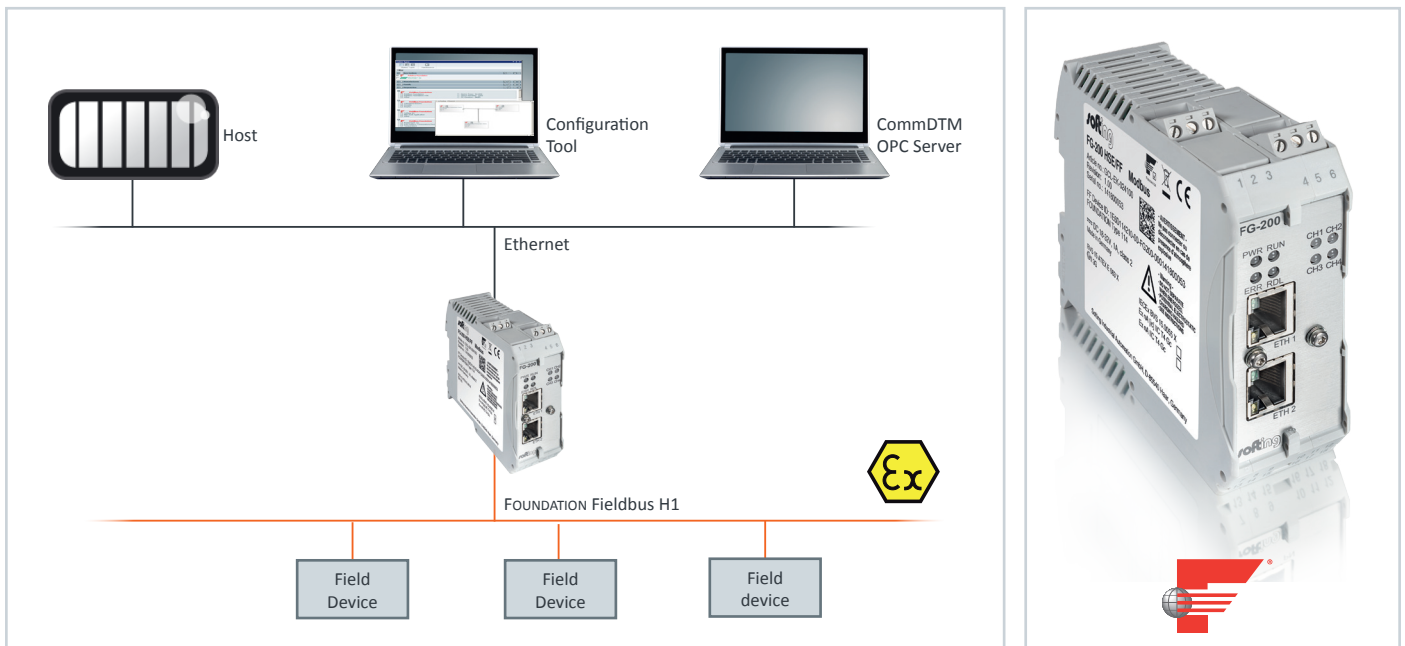


FG-200 HSE/FF Modbus

FF Network Integration via Modbus Including Redundancy

With Softing's FG-200, it is possible to integrate up to four FOUNDATION™ Fieldbus (FF) H1 links into control systems supporting Modbus. The FG-200 provides redundancy and is suitable for use in hazardous areas. This device features fast access to process data, while making use of FF advantages like reduced cabling, central field device parameterization, comprehensive diagnostics, or intrinsically safe device segments. It is compatible with the R. STAHL bus-Carrier Series 9419 and Fieldbus Power Supply Series 9412 products for easy commissioning.



Easy Commissioning

- Optional support of R. STAHL bus-Carrier Series 9419 and Fieldbus Power Supply 9412 products (cabling reduced to a minimum)
- Modbus data import to web server reducing mapping efforts

Asset Management

- Visitor mode avoiding interference with network behavior
- Enabling asset management systems (e.g. Emerson's AMS) and Field Device Tool (FDT) frame applications (e.g. SMART VISION, FieldMate, Field Device Manager, FieldCare, or PACTware)

Device Redundancy

- Redundancy link enabling device redundancy (D-3 according to FF-593)
- Automatic mirroring of configuration data
- Very fast redundancy switch-over

All Necessary Tools Included

- FF Configuration Tool for configuration of devices and cyclic communication
- PACTware for device configuration and basic asset management tasks

Technical Data

| | | |
|-----------------------------|---|--|
| Hardware | Processor | Altera Cyclone V SoC with dual-core ARM Cortex-A9 |
| | Status LEDs (Gateway) Status LEDs (Fieldbus) | PWR (power supply), RUN (operation), ERR (error), RDL (redundancy link) FF H1 activity per link |
| Interfaces and Connectors | Ethernet | 2 * IEEE 802.3 100BASE-TX / 10BASE-T (only ETH1 supported) Connectors: RJ45 |
| | FOUNDATION Fieldbus H1 | 4 FF H1 links, compliant to type 114 of FF physical layer profile (each link capable to operate independently as Link Master and/or Time Master) Transfer rate: 31.25 Kbit/s Fieldbus voltage range: 9 VDC ... 32 VDC, preferred voltage: 24 VDC Current consumption: 10 mA / link Connectors: 3-position screw connection, galvanically isolated |
| Physical Properties | Dimensions (H x W x D) | 100 mm x 35 mm x 105 mm |
| | Weight | Approx. 0.25 kg |
| | Power Supply | 18 VDC ... 32 VDC; SELV/PELV power supply mandatory Typical input current: 200 mA, maximum input current: 1 A (allowing for in-rush current at switch-on) No power supply to FF H1 links through FG-200 HSE/FF Modbus |
| | Operating / Storage Temperature | -40 °C .. +70 °C / -40 °C .. +85 °C (see detailed mounting description in user manual) |
| | Relative Humidity | 10 % ... 95 %, non-condensing |
| | Cooling | Convection, no fan |
| | Coating | Conformal coating based on ANSI / ISA-S71.04 G3 |
| | Mounting Protection Class | DIN rail 35 mm IP20 |
| Software | Protocols | FOUNDATION Fieldbus H1 FOUNDATION Fieldbus HSE Modbus TCP |
| | Redundancy | Device redundancy compliant to type D-3 according to specification FF-593 |
| Conformity / Certifications | CE | EN61000-6-2, EN61000-6-4, EN55022 Limit Class A, EN55011 |
| | Electromagnetic Compatibility (EMC) | FCC CFR45, Part 15 Section 15.107 and 15.109 (Class A), VCCI Class A Information Technology Equipment 2002 |
| | Vibration / Shock | DIN EN 60068-2-6 Vibration / DIN EN 60068-2-27 Shock |
| | Hazardous Location Certifications | cULus: Class 1, Division 2, Groups A, B, C, D (in preparation) IECEX: Ex nA [ic] IIC T4 Gc ATEX: II 3G nA [ic] IIC T4 Gc |
| | Safety Requirements | IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 (with CB scheme) |

Scope of Delivery

| | |
|---------------|--|
| Hardware | FG-200 HSE/FF Modbus |
| Software | FF Configuration Tool, FDT CommDTM, PACTware on CD-ROM |
| Documentation | Quick Startup Guide, User Manual on CD-ROM |

Order Numbers

| | |
|---------------|---|
| GCL-EK-024100 | FG-200 HSE/FF Modbus |
| GCL-EK-024101 | FG-200 HSE/FF Modbus, functionally identical design variant for use with R. STAHL bus-Carrier Series 9419 and Fieldbus Power Supply 9412 products |

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