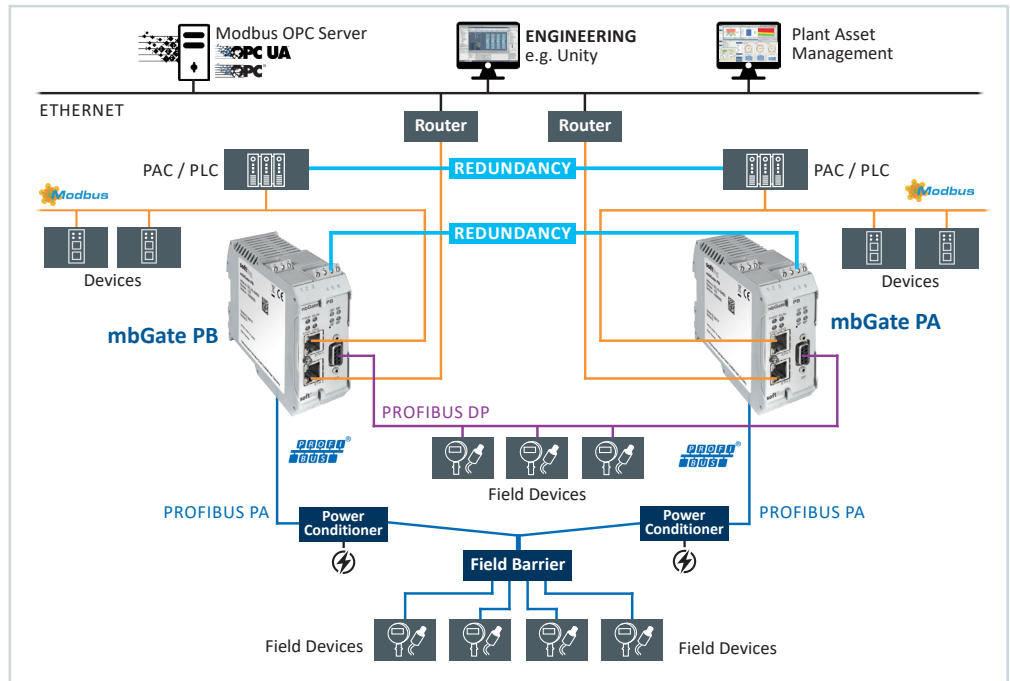


mbGate PB

Simple connection of PROFIBUS Slave Devices to Modbus Control Systems via Internal I/O Mapping

- Re-use of Existing Power Conditioners in Technology Upgrade Projects
- Simple Configuration of Device Mapping via Built in Web Interface
- Prepared for Integration in Standard Engineering and Plant Asset Management Tools
- MODBUS/TCP Redundancy



Key Component for Transition to State-of-the-Art Technology

- Simple replacement of installed PROFIBUS DP/PA segment couplers
- Re-use of existing PROFIBUS segments without requiring modification

Direct Connectivity to PROFIBUS Segments

- Single access point to PROFIBUS DP and PROFIBUS PA segments from Modbus TCP networks
- Acting as Modbus TCP Server and PROFIBUS PA and PROFIBUS DP Master
- Support of one PROFIBUS DP segment and up to two PROFIBUS PA segments

Configuration, Parameterization and Plant Asset Management Using Standard Industry Tools

- Supports major Modbus engineering tools such as Schneider Unity Pro or Siemens TIA Portal
- Included CommDTM allowing use in FDT/DTM frame applications
- EDD-based device parameterization using Siemens Simatic PDM

MODBUS/TCP Redundancy

- Supports the use of two redundant PLCs and two redundant gateways
- Easily enabled via licensing
- Full control of redundant operation mode via engineering and PLC

mbGate PB

Technical Data

| | | |
|----------------------------------|---------------------------------|---|
| Hardware | Processor | Altera Cyclone V SoC with dual-core ARM Cortex-A9 |
| | Status LEDs (Gateway) | PWR (power supply), RUN (operation), ERR (error), CFG (configuration and update) |
| | Status LEDs (Fieldbus) | SF (system fault), BF (bus fault) |
| Interfaces and Connectors | Ethernet | 2 * IEEE 802.3 100BASE-TX / 10BASE-T, managed Ethernet switch for daisy chain topology Connectors: RJ45 Protocol: Modbus TCP Server RESTful API interface for device configuration |
| | PROFIBUS PA | 2 * PROFIBUS PA (MBP) segments, Bus-powered Medium Attachment Unit (MAU): Fieldbus voltage range: 9 VDC ... 32 VDC, current consumption 10 mA, Connectors: 3-position screw connection, galvanically isolated |
| | PROFIBUS DP-V0 / V1 | 1 Segment with RS485 Physical Layer, Connector: 9-pin Sub-D socket |
| Physical Properties | Dimensions (H x W x D) | 100 mm x 35 mm x 115 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 PROFIBUS PA segments through mbGate PB |
| | Typical Power Loss | 6 W |
| | Operating / Storage Temperature | -40 °C ... +60 °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 | DIN rail 35 mm |
| | Protection Class | IP20 |

Scope of Delivery

| | |
|---------------|-------------------|
| Hardware | mbGate PB Gateway |
| Documentation | On Website |

Order Numbers

| | |
|---------------|---|
| GCA-EN-024808 | mbGate PB , Modbus TCP to PROFIBUS Gateway. Supports 2 PA segments (up to 32 PA devices, MBP physical layer) and 1 PROFIBUS DP segment (RS485). |
|---------------|---|

Additional Products and Services

| | |
|---------------|---|
| LRL-DY-134501 | dataFEED OPC Suite , Version 4.01 and higher, including all supported PLC protocols, support for OPC UA, access for any number of dataFEED OPC Tunnel Clients, for simultaneous access to a total of up to 100 OPC UA Servers, OPC Servers and OPC Tunnel Servers, and many more Functionalities such as Database and File Access, Data Exchange, Optimizer, Concentrator and Bridge |
| GCA-EL-024802 | mbGate PA , Modbus TCP to PROFIBUS PA Gateway. Supports up to 2 PA segments (up to 32 PA devices). |
| GCA-EL-024804 | mbGate PA , Modbus TCP to PROFIBUS PA Gateway. Supports up to 4 PA segments (up to 64 PA devices). |
| GCA-EN-024806 | mbGate DP , Modbus TCP to PROFIBUS DP Gateway. Supports 1 PROFIBUS DP segment (RS485). |

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