



SYSTEM COMPONENTS FOR AUTOMATION TECHNOLOGY

Made in Germany

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Helmholz®
COMPATIBLE WITH YOU

FACTS AND FIGURES – SYSTEME HELMHOLZ



- Founded in 1988
- 100 employees at the company headquarters
- 28 years of experience
- More than 7,000,000 products sold worldwide
- 5 branch offices
 - Benelux
 - France
 - China
 - Spain
 - Croatia (R&D branch office)
- More than 46 partners worldwide



PRODUCT SEGMENTS

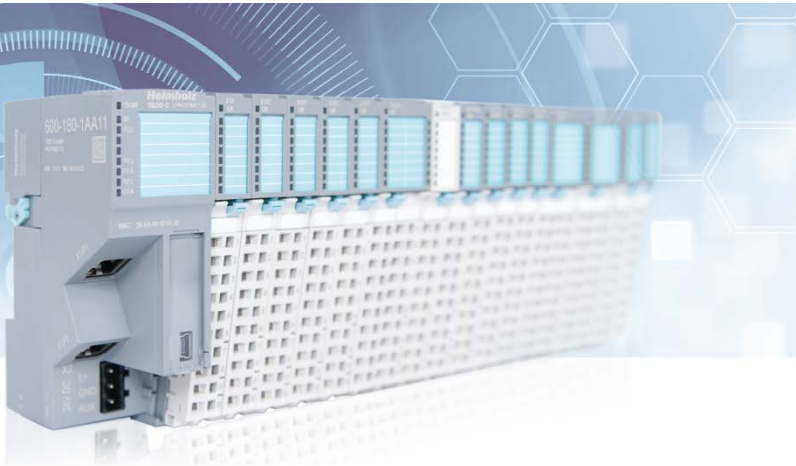


- Remote maintenance



- Infrastructure/Security

PRODUCT SEGMENTS



- Distributed fieldbus I/O system



- Fieldbus applications

PRODUCT SEGMENTS



- Components for S7

BRANCHES



- Chemicals and food industries



- Energy and environment

BRANCHES



- Water supply/Infrastructure



- Building automation

BRANCHES



- Automotive industry



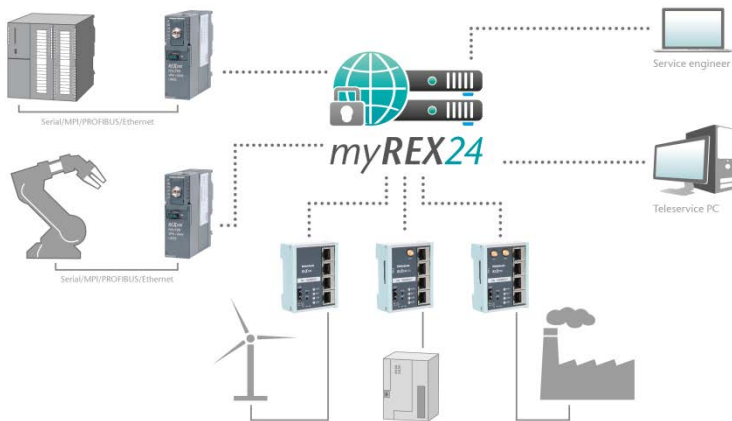
- Packaging and logistics

REMOTE MAINTENANCE

Worldwide access to machines and equipment



- REX 100, Ethernet router
WAN | 3G | LTE | WiFi
- REX 300, Ethernet router
PROFIBUS | UMTS | modem
serial interface | LAN | WAN
- myREX24, VPN portal
- WEB2go
Easy access through an HTML5-enabled web browser
- REX Global SIM
Network coverage in more than 50 countries worldwide
- Teleservice modules
Teleservicing of a plant via the MPI bus



INFRASTRUCTURE/SECURITY

Protect and connect industrial networks



- WALL IE, industrial Ethernet bridge/firewall
Integration of machine networks into the higher-level plant network



- PROFINET Switch, 4-port, managed
Network automation innovatiely

INFRASTRUCTURE/SECURITY

Gateways



- PROFIBUS Ethernet gateways:
Programming, visualization, and teleservicing
 - NETLink® PRO Compact,
PROFIBUS Ethernet gateway
 - NETLink® PRO PoE,
PROFIBUS Ethernet gateway
 - NETLink® WLAN,
PROFIBUS Ethernet WLAN gateway
 - NETLink® USB Compact,
Mini PROFIBUS USB gateway
- PN/CAN Gateway, PROFINET/CANopen®
Easily connect CANopen® devices to PROFINET

DISTRIBUTED FIELDBUS I/O SYSTEM

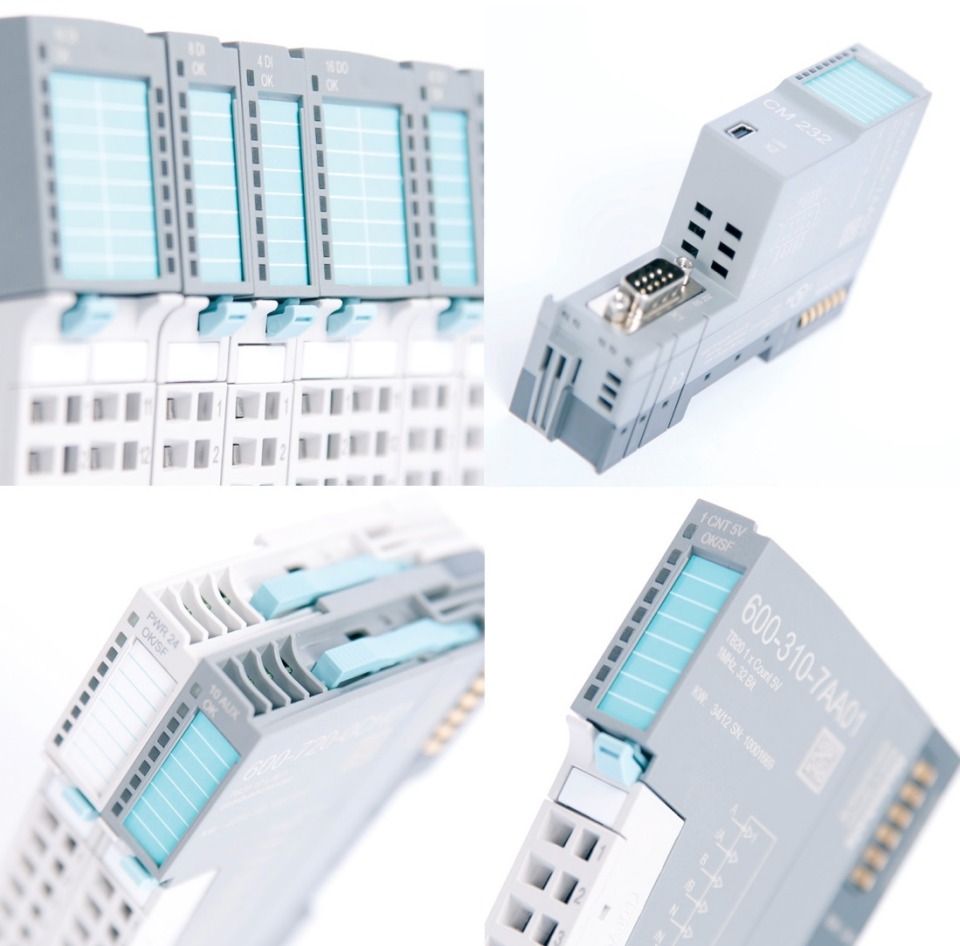
At home around the world



- Three-component modular design
- Modules that are hot-pluggable
- Bus coupler for a wide range of your fieldbus applications
- Up to 64 modules per bus coupler
- I/O modules powered directly, power module already integrated
- 2-, 3-, 4-, 6-, 8-channel modules for digital and analog signals
- Up to 1024 inputs/outputs possible per installation
- Each I/O module can be used on all bus couplers without restriction

DISTRIBUTED FIELDBUS I/O SYSTEM

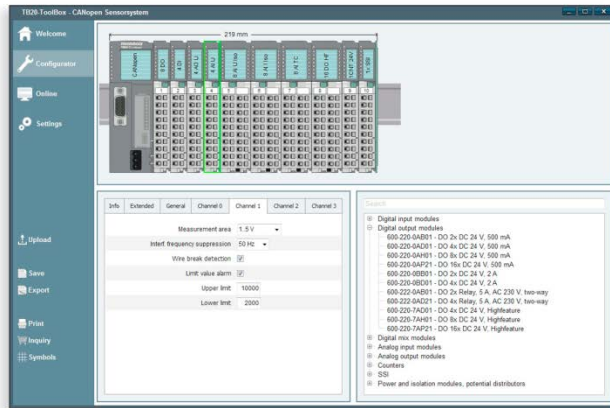
At home around the world



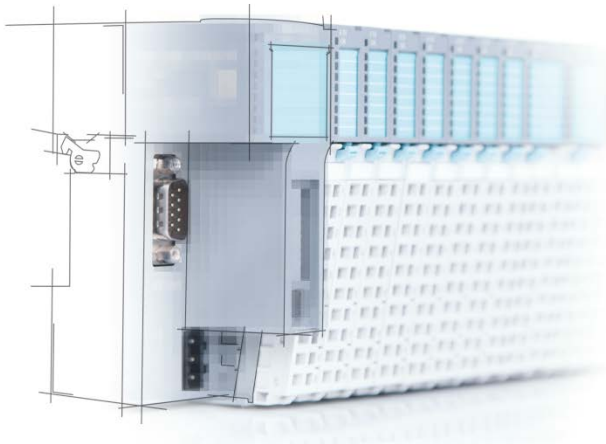
- 16-channel modules with a narrow installation width
- Functionality for any eventuality
Counter modules | SSI encoder interface
serial communication | energy meter
high-feature modules | digital mix modules
- Freely definable auxiliary contact
(auxiliary terminal)
- Clear and unambiguous identification;
any channel can be identified
- Coded system: Mix-ups excluded

DISTRIBUTED FIELDBUS I/O SYSTEM

At home around the world



- TB20-ToolBox
 - Smart planning and configuration
 - Real-time diagnosis
 - Importing/exporting symbols
 - Simulation operation (I/O check)
Commissioning without higher level control
- Product macros for electrical engineering software



FIELDBUS APPLICATIONS

PROFINET

- PROFINET connector
RJ45 | 180° | 90°

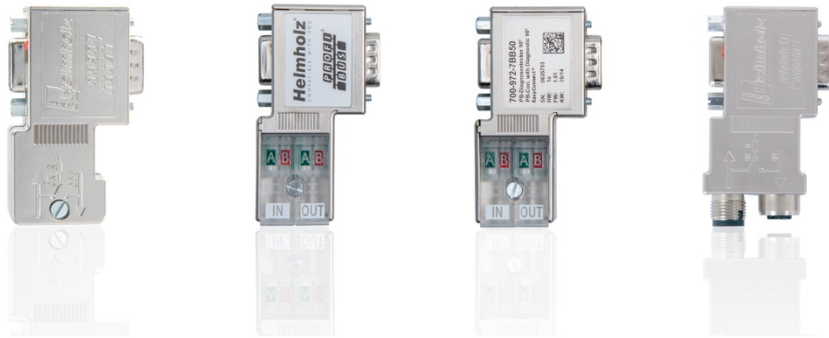


- PN/CAN Gateway, PROFINET/CANopen®
Easily connect CANopen® devices to PROFINET
- PROFINET Switch, 4-port, managed
Network automation innovatively



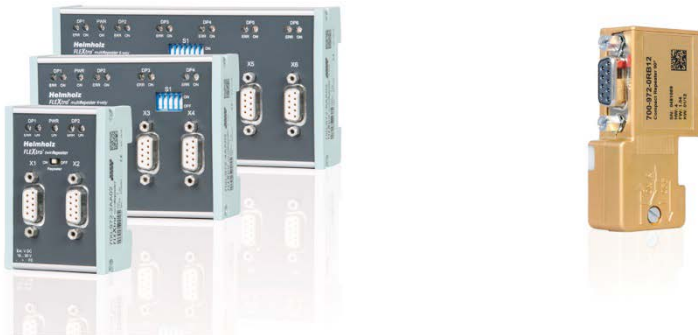
FIELD BUS APPLICATIONS

PROFIBUS



- PROFIBUS connectors

- 90° | 35° | axial | angled
- Screw terminal | EasyConnect® | M12
- Diagnostics



- FLEXtra® PROFIBUS repeater 2/4/6-way
System expansion by up to six segments with one device
- PROFIBUS compact repeater
Bus extension without additional space requirements in the control cabinet

FIELDBUS APPLICATIONS

PROFIBUS



- PROFIBUS FO converter
OPTopus, PROFIBUS Optical Link



- DP/DP coupler
Connection of PROFIBUS DP networks



- FLEXtra® profiPoint
Active termination and measuring point

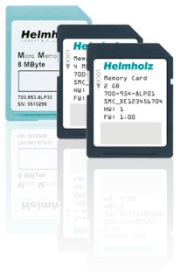
FIELDBUS APPLICATIONS

CAN-BUS



- PN/CAN Gateway, PROFINET/CANopen®
Easily connect CANopen® devices to PROFINET
- CAN-Bridge
Connecting CAN networks
- DP/CAN coupler
CANopen® | Layer 2
- Communication modules
CAN 300 PRO | CAN 400
- CAN Bus connectors
90° | axial
- Configuration and product
planning tool CANParam

COMPONENTS FOR THE S7



- Memory Cards, Micro Memory Cards
300 | 1200 | 1500
- Input/output modules
Digital | Analog
- Communication modules
Serial | EIB/KNX
- Front connectors, mounting rails and accessories
- Your advantage:
 - Simple change/replacement without program change possible at any time
 - Plug & play also for existing systems
 - Cost reduction without change to the PLC

Thank you for your attention.



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