



Comprehensive solutions for  
Industrial Communication,  
Networking, Diagnostic  
Solutions & Services...



## — THE COMPANY

At Global Solutions, we redefine industrial automation. Since 2011, we've been synonymous with innovation, delivering a range of products, solutions, and services that set industry standards.

### About Us:

**Global Solutions** is a distinguished player in the realm of industrial automation, offering a comprehensive range of products, solutions, and services since its inception in 2011. With a decade of experience under our belt, we have evolved into a trusted partner for businesses seeking advanced automation solutions.

### Our Offerings:

Our portfolio encompasses a diverse array of industrial automation products, solutions, and services that cater to the unique needs of our clients. We take pride in being an authorized partner of esteemed multinational brands, including Honeywell, Drager, UL Group, Eaton-MTL and Weidmuller. Additionally, our expertise extends to complete solutions for brands such as Oring, Procentec, Helmhoz, HMS, etc. ensuring a comprehensive range of choices for our clients.



## — OUR VISION & MISSION

### Vision:

To be a globally recognized leader in providing innovative and sustainable industrial automation solutions, setting the standard for excellence in the industry.

### Mission:

To empower businesses through cutting-edge technologies, exceptional products, and unparalleled services, fostering growth, efficiency, and safety in industrial processes.



## — Choosing Global Solutions means...

Choosing a partner that provides not just solutions, but a commitment to excellence and innovation. Our blend of exclusive partnerships, technical expertise, customer-centric approach, and efficient supply chain establishes us as a leader in the industrial automation landscape. Experience the Global Solutions difference for yourself.

### — **Expertise in Network Services:**

At Global Solutions, we offer more than just products. Our state-of-the-art services for Profibus and Profinet networks demonstrate our commitment to seamless implementation and optimization. We don't just sell solutions; we make sure they work flawlessly within your network infrastructure. Our experienced team specializes in optimizing network performance for efficiency and reliability.

### — **Serving Panel Builders and System Integrators:**

Global Solutions is proud to extend its offerings to Panel Builders and System Integrators of various brands. We recognize the pivotal role these partners play in the industrial ecosystem, and we provide them with industrial automation products that empower them to deliver exceptional solutions to their clients.

### — **Honeywell Field Instrumentation, Thermal Solutions and Control Systems:**

We're not just a generalist; we specialize in Honeywell Field Instrumentation and Control Systems designed specifically to meet the intricate needs of process plants. This expertise reflects our commitment to delivering tailor-made solutions that are finely tuned to process plant operations.

### — **Expertise in Drager Fixed Gas Detection:**

Global Solutions takes pride in providing a specialized range of Fixed Gas detection products, solutions, and services using Drager technology. This offering caters to various process industries, ensuring safety and compliance with the highest standards in gas detection.

### — **IIOT, Industrial 4.1, Cybersecurity, and Advanced Software:**

Global Solutions provides cutting-edge solutions in the realms of Industrial Internet of Things (IIOT), Industry 4.1, Cybersecurity, and advanced software. We empower businesses to harness the potential of the latest technologies, ensuring efficiency, connectivity, and security in their operations.

### — **Continuous Innovation:**

At Global Solutions, our commitment to innovation is unwavering. We continuously explore new products, solutions, and services to provide a one-stop solution to our valuable customers. This dedication ensures that we stay at the forefront of technological advancements, offering our clients the latest and most effective solutions in the ever-evolving field of industrial automation.

### — **Experienced Leadership:**

Our senior leadership team comprises individuals with over 20 years of experience in the industrial automation sector. Their in-depth knowledge and hands-on expertise ensure that our solutions not only meet technical standards but also align with industry best practices.

### — **Customer-Centric Approach:**

At the core of our philosophy lies an unwavering commitment to customer satisfaction. We understand that your success is our success. By taking the time to comprehend your unique requirements, we deliver solutions that seamlessly align with your objectives, fostering lasting partnerships.

### — **Customer Appreciation:**

We're proud of the fact that our efforts have not gone unnoticed. The appreciation we've received from our customers is a testament to our dedication to excellence and our ability to deliver on our promises.



## Profibus Solutions

**Helmholz**



### FLEXtra® twinRepeater

- Used for bus extension or as a spur line, Increase the number of participants and System expansion. It regenerates the incoming electrical signal on a bus line and retransmits it (bit reshaping and retransmission). It Can also be used for bus extension up to 1 km also it use in MPI networks.
- Having status LEDs for each segment and Electrical isolation.

### PROFIBUS Compact Repeater

**PROFIBUS**



- The transmission signals are regenerated by the repeater and re-sent (bit-reshaping and retransmission) so that faults in the line are largely eliminated.
- The PROFIBUS compact repeater is a great alternative to conventional repeaters for a large number of applications, both technically and in terms of price.

### FLEXtra® multiRepeater



- It is a multi-PROFIBUS repeater designed for mounting on a DIN rail. It regenerates the incoming electrical signal on a bus line and retransmits it (bit reshaping and retransmission). The signals are restored in level, slope, and duty cycle.
- It can be used for bus extension, to increase the number of participants, and to expand the system. At the same time, use in MPI networks is possible.
- As a special application option, the PROFIBUS multiRepeater allows the setup of a star network with independent four/ six segments. The status LEDs integrated for each segment provide a quick overview of the current bus status.

### FLEXtra® profiPoint

- It can be used in conjunction with a PROFIBUS connector as the active measurement point or as an active terminator. Power is supplied independent of the bus through a socket.
- Using an active terminating resistor, participants of the bus system can optionally be switched on and off without causing malfunctions.



### Connector



- It is quickly mounted and has integrated, connectable terminating resistors. For improved MC compatibility, the housing of the plug is metalized.
- Using the PROFIBUS connector diagnosis, a PROFIBUS network can be established in which the user can at any time check the state of the bus system at a glance

## Profibus Solutions



### Profibus DP / PN Coupler

- With the new DP/PN Coupler, a simple and uncomplicated connection of PROFIBUS to PROFINET is possible. It allows data transfer between a PROFIBUS master and a PROFINET controller. The maximum size of the transmitted data is 244 bytes of input data and 244 bytes of output data.
- The DP/PN Coupler is projected via a GSD file on the PROFIBUS side and a GSDML file on the PROFINET side. No additional configuration software is necessary.

### Profibus NETLink PRO Comact

- The devices of the NETLink family serve the purpose of programming, configuring, and visualizing S7 PLCs.
- In general, connection to each MPI/PROFIBUS terminal of the bus system or directly at the interfaces of active and passive participants is also possible.
- The integrated web interface offers parameterization, diagnostic, and security features, and for functional enhancements, the user can use our free diagnostic software SHTools to, for example, automatically perform firmware updates.
- The NETLink PRO Compact is a communications processor in the plug format for programming, visualization, and remote maintenance. It combines flexibility and a compact design.

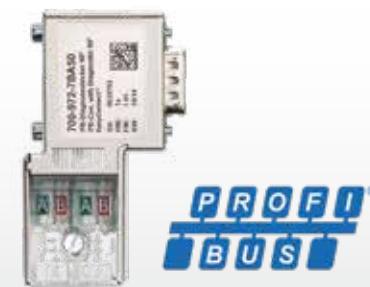


### Profibus DP / CAN Coupler

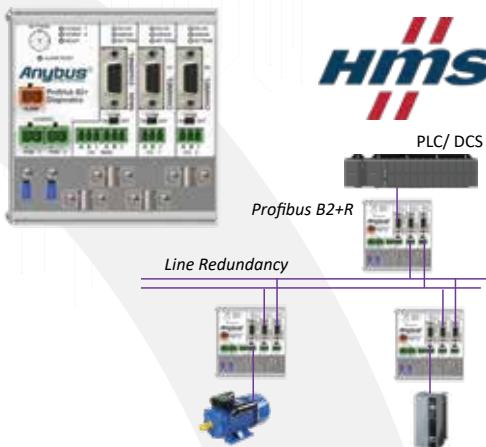
- The DP/DP coupler connects two PROFIBUS DP networks with one another and enables data transmission between the masters of the two DP networks.
- The maximum size of the transmitted data is 244 bytes of input data and 244 bytes of output data. The DP/DP coupler is configured within the hardware configurator. A GSD file or external parameterization software is not necessary.

### Available Connector Options are :

- Eay Connect / Screw Terminals
- With PG Port / Without PG Port
- With LED / Without LED



## Profibus Solutions

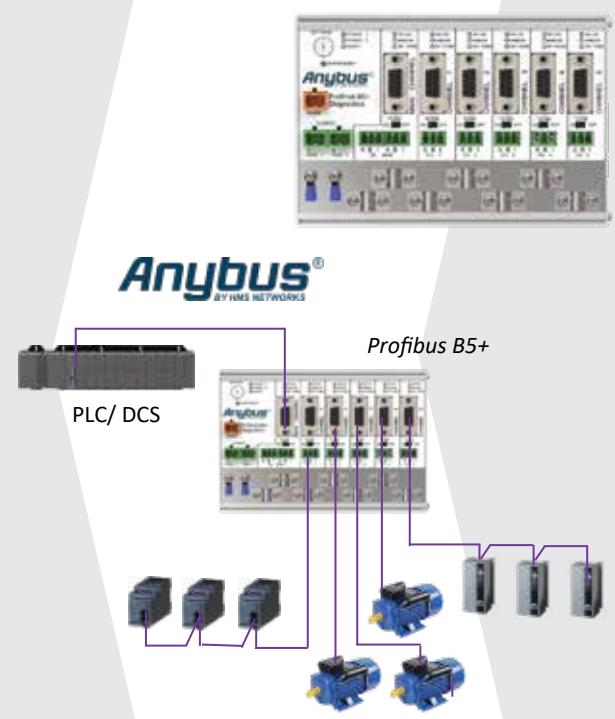


### Profibus DP / PN Coupler

- The ProfiHub B2+ is equipped with two galvanically isolated transparent repeaters (offering three segments). Each segment can handle 31 devices and a cable length equal to the main bus. To save costs on plugs and to offer flexibility, the repeater contains screw terminals as well as DB9 connectors. Termination for each segment is on-board and switchable.
- If bus redundancy is enabled, two segments will form a redundant pair. An alarm contact is linked to events based on the status of the power supply and the bus redundancy status.

### ProfiHub B5+

- The B5+ is equipped with 5 galvanically isolated transparent repeaters on a single unit (offering 6 segments). Each segment can handle 31 devices and a cable length equal to the main bus.
- The ProfiHub B5+ offers a reliable and robust backbone solution with robust message checking and selectable redundancy on communication and power supply.
- The extensive monitoring of messages in combination with redundancy on the communication and voltage, makes the ProfiHub the perfect access port for network components. An alarm contact is linked to events based on the status of the power supply and the bus redundancy if this is enabled.
- The ProfiHub B5 is a powerful package to ensure reduced installation complexity, increased time utilization and better deployment of project resources. The ProfiHub B5+ is used in several application areas worldwide.



### Profibus Gateways



- Anybus X-gateways allow the connection of your PROFIBUS Master/Slave device and network to many other fieldbus or Industrial Ethernet networks
- PROFIBUS Master/Slave functionality on the Profibus network, and master or slave functionality with the other networks. Compatible with all leading PLCs
- Gateways are a cost-effective solution that minimize hardware and software changes while maximizing performance. No need to lay additional cables, just connect the gateway on the network where you need to connect to another fieldbus or Ethernet network.
- Simple integration into control systems as the gateway acts as a regular network node, No overhead code in the control system impacting execution time, Reduces the number of card slots needed in the control system

## Profibus / Profinet Diagnostics

### ProfiTrace (Standard Kit)



- ProfiTrace is an essential tool for maintenance and troubleshooting and is currently the most powerful mobile analyzer for PROFIBUS networks.
- This outstanding and portable tool boosts the capabilities of service, maintenance and engineering technicians. You can check and troubleshoot the complete PROFIBUS network with simply one software package and one piece of hardware (ProfiCore™ Ultra). This is an enormous reduction in equipment, weight, costs and required knowledge.

### CombBricks



- The Anybus ComBricks is a modular platform that enables you to actively monitor Profibus DP and Profibus PA networks 24/7. It provides real-time alerts for any faults that arise or are likely to arise. With its modular design, you can easily customize and expand the platform to meet your specific monitoring needs.
- Additionally, it offers the flexibility to convert Profibus DP to Profibus PA or to Fiber Optics. Convenient remote access can be established through its integrated webserver.

### Atlas



- The Anybus Atlas2 Plus is a permanent monitoring tool that provides diagnostics information of your industrial network 24/7, displaying it within our intuitive software Osiris. This allows field technicians to ensure uptime, a healthy network and troubleshoot their network before costly downtime can occur.
- Whether you're using PROFINET, EtherNet/IP and EtherCAT, you'll discover that the Atlas2 Plus gives you a much more connected and predictive approach to machine health monitoring and maintenance.

### EtherTAP



- IPassive network monitoring tools for in-depth analysis of PROFINET and EtherNet/IP traffic. EtherTAP is also used as the bridge between an industrial network and the OSIRIS diagnosis software.

### Mercury



- The Anybus Mercury MKII is a rugged industrial Windows tablet that uses the Osiris diagnostic software to simplify Industrial Ethernet and PROFIBUS troubleshooting, maintenance, and monitoring. The mobile tool helps you quickly identify and resolve potential faults to keep your network healthy and efficient.

## Profinet Solutions

### FLEXtra® Profinet Switch



- The FLEXtra PROFINET-Switch connects the control world with PROFINET according to Conformance Class B and the IT world with up to 1Gbit Ethernet.

#### Technical advantages when using a PROFINET-Switch:

✓ Prioritizing of PROFINET frames	✓ Ring redundancy
✓ Assignment of a configuration via the device name	✓ Each port can be activated or deactivated
✓ Neighborhood detection	✓ Diagnostic messages for network problems
✓ Device exchange without programming device	✓ Identification and maintenance data

**Number of Ports:** 16x RJ45 | 12x RJ45 / 4xSFP | 8x RJ45, 2x SFP

Available with Power over Ethernet as well

### Profinet Switch



- The managed PROFINET-Switch supports PROFINET according to Conformance Class B and offers transmission security through ring redundancy as an MRP client.

- One of the most important functions of a PROFINET-Switch is the prioritizing of the PROFINET frame traffic in the machine network. The managed switch can differentiate whether the frame is a web query, an FTP file transmission, a media stream, or a PROFINET frame.

### Profinet / CAN – Gateway



- With the PN/CAN gateway an easy and uncomplicated connection of CAN devices to a PROFINET network is possible.
- The PN/CAN gateway CANopen represents a full-featured CANopen master. As a master, the gateway supports network management, SYNC telegrams, node-guarding/heartbeat for monitoring the nodes and LSS services. Up to 16 PDOs can be configured per CANopen slave. The parameterization of the CANopen nodes via SDO telegrams and the management of emergency messages is also possible.

### FLEXtra® profiPoint



- The industrial-grade metal housing provides the necessary ruggedness so that the plug can be used in many industrial applications.
- To save the user time in wiring, the RJ45 connector can be assembled in a single step using the fast connection technology EasyConnect. Solid single wires and strands can be used.

## Profinet Solutions

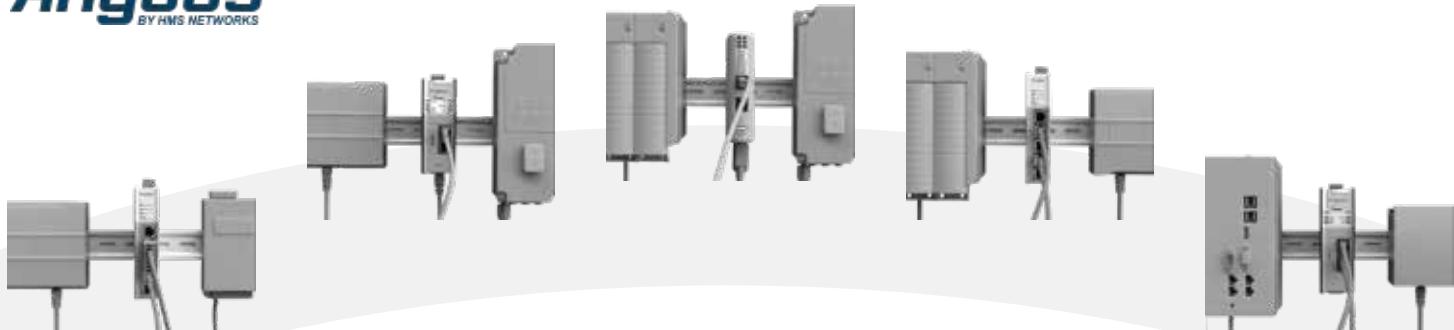
### Communication Gateway

- HMS Networks has introduced 23 next-generation Anybus Communicator Gateways, offering faster and more efficient data transfer to and from industrial networks. The high-performance gateways connect devices or networks to EtherCAT, EtherNet/IP, Modbus TCP, PROFIBUS, and PROFINET control systems, enabling the removal of isolated automation and increasing operational performance.
- Powered by the award-winning Anybus NP40 industrial network processor, the gateways meet demanding requirements for performance, reliability, and security. With new hardware and software, the gateways allow for instant data transfer, up to 10 times faster than their predecessors. Additionally, users can exchange significantly more data as the gateways transfer up to 1,500 bytes to and from connected PLCs.
- The optimized hardware design and intuitive user interface mean you'll be up and running in minutes. The forward-facing ports and DIN-rail mounting allow you to install the gateway close to connected devices, reducing wiring requirements.
- Users can also easily configure the gateways using drag-and-drop functionality in the web-based user interface, which is accessible via a dedicated Ethernet port on the gateways.

#### Rage of Gateways:

- ✓ Serial/CAN Devices to Control System (PLC)
- ✓ Ethernet/Fieldbus Devices to Control System (PLC)
- ✓ Control System (PLC) to Control System (PLC)
- ✓ Devices to Rockwell ControlLogix® and CompactLogix® controllers
- ✓ Software application to Control System (PLC)
- ✓ Information systems (IT) to devices and control systems (PLC)

**Anybus**<sup>®</sup>  
BY HMS NETWORKS



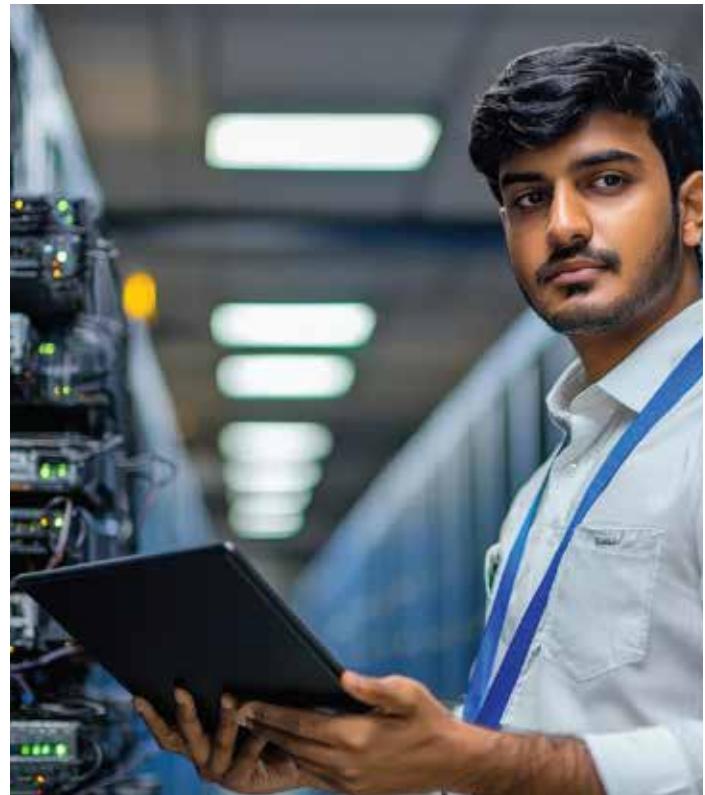
**HMS**



## Services

### Network Design and Diagnostic Services

Global Solutions further extends its expertise to the design, audit, and troubleshooting of Profibus and Profinet. These communication protocols are vital for industrial automation systems, and our team's proficiency ensures seamless connectivity and efficient data exchange.



### Network Design:

Our skilled engineers are adept at designing robust Profibus and Profinet networks tailored to the specific needs of clients' industrial processes. Their designs optimize data flow, reduce latency, and enhance overall system performance.

### Audit Services:

We conduct comprehensive audits of existing Profibus and Profinet networks to identify inefficiencies, bottlenecks, and areas for improvement. Through thorough analysis, they provide actionable insights to enhance network reliability and efficiency.

### Troubleshooting:

In the dynamic world of automation, network issues can disrupt operations. Our troubleshooting services are designed to swiftly identify and resolve connectivity problems, ensuring minimal downtime and optimal performance.

## Our Offerings

### Products, Solutions & Services

**Honeywell**

Field Instruments  
Control System  
Liquid Metering  
Gas Metering  
Safety Systems

**TURCK**

Fieldbus  
Technology  
Industrial Control  
Interface  
technologies  
Machine Safety  
Sensors

**Dräger**

Fixed Gas  
Detector  
Portable Gas  
Detector  
Industrial Safety  
Solutions

**EATON**

*Powering Business Worldwide*

IS / Non-IS Isolator  
Safety Barrier  
HART Multiplexers  
IS Fieldbus  
Solutions  
Surge Protection  
HMI & Visualization

**BNF  
TECHNOLOGY**

Real Time  
Monitoring  
Alarm Management  
Dash Board  
Spreadsheet  
Mimic  
Predictive Analytics

**UL  
UL GROUP**

Relay Module  
Field Interface  
Module  
Prefab Cables  
Panel Accessories  
Passive Interface  
Module

**Helmholz  
PROCENTEC**

Profibus Repeater  
Profibus connector  
Profibus Analyzer  
Profibus & ProfNet  
Coupler  
Diagnostic tools

**Weidmüller**

Fieldbus Technology  
Industrial Control  
Interface  
technologies  
Machine Safety  
Sensors  
Connectivity  
Cloud Solutions

**ORing**

Ethernet Switch  
Media Converter

**HMS**

Protocol Converter  
Gateways  
IT/OT Gateways



# GLOBAL SOLUTIONS



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