The PROFIBUS and PROFINET company
About PROCENTEC

PROCENTEC is a specialist in PROFIBUS, PROFINET and Industrial Ethernet technology and develops products to optimize the production processes of end users. Our innovative solutions ensure that our customers successfully operate in the world of industrial automation and enjoy maximum results from their process.

PROCENTEC globally supplies all the components required to install a measurable and controllable network. Our products measure, signal and connect the various elements of a process installation and ensure it runs optimally. We develop and produce all products in the Netherlands and export them through our worldwide distribution network. PROCENTEC also is the international accredited Competence and Training center for PROFIBUS and PROFINET. We provide training courses that help employees using those techniques optimally for their business objectives. In addition we also provide the necessary support to end users during their implementation procedures, certification processes, audits and malfunctions.

We are known for being service oriented, reliable and for delivering high quality solutions to our customers. With over twenty years of experience with PROFIBUS, PROFINET and Industrial Ethernet, our experts are always standing by to create the optimum solution. By doing so, we uphold innovation and the customer’s need in highest regard.

As the industrial automation market is changing rapidly, we continue to innovate and develop, in order to remain the most reliable service provider and knowledge partner for our customers. Quality, continuity, service and sustainability are essential to us. That is how we can provide our customers with groundbreaking and tailormade solutions.
Atlas

PROCENTEC’s Atlas is the solution for monitoring and diagnosing Ethernet networks, where innovative simplicity and predictive capabilities are desired. The tool is perfect for preventing unexpected and expensive downtime in industrial networks. PROCENTEC’s Atlas provides unique insight and knowledge of networks and an overview of the network health, with easy to use and understand displays of network health.

The ease of use and clear overview makes this an ideal solution for complete understanding of networks, always and anywhere. Atlas contains a compact device, that can be installed on a DIN rail and plugged in to the network. Atlas does not require additional and time consuming software installations on the PC. You can get all the information using a custom designed web application. All the information Atlas gives, can be viewed on the central, customizable dashboard page.

Features

- Customizable dashboard
- Topology
- Universe and tree structured networks
- Q-Factor
- Device list
- Traffic light
- Alarm notifications
- USB 2.0-support
- SD Card slot
ProfiTrace

ProfiTrace is the most powerful mobile analyzer for PROFIBUS networks. It is an essential tool for fault finding, monitoring and health checking networks. The complete PROFIBUS network can be easily checked and troubleshooted with only one software package and one piece of hardware (ProfiCore™ Ultra). ProfiTrace is easy to use and combines all required elements to detect all PROFIBUS faults. The use of this mobile analyzer results in a higher uptime, lower operational costs and the optimization of the entire production process.

Thousands of users benefit from this powerful tool daily. ProfiTrace boosts the competences of service, maintenance and engineering technicians. Typical PROFIBUS failures such as noise, reflections, voltage drops, termination problems, double addresses, wire breaks and configuration faults are easily identified. Predictive maintenance and asset management are really possible with ProfiTrace.

Features

- Busmonitor for DP and PA with powerful statistics
- Oscilloscope - ScopeWare
- Bar graph
- Topology scan
- Reporting
- 3-Color network condition indicator
- DP master - ProfiCaptain
- ProfiCore Ultra USB interface
- OPC server and CommDTM
ComBricks is the first PROFIBUS and PROFINET based automation system that unites network components and permanent monitoring with ProfiTrace. It provides the perfect solution for diagnosing and designing networks in an area with a shortage of (qualified) technical staff and a huge amount of pressure on system availability. ComBricks enables engineers to remotely monitor PROFIBUS installations from anywhere in the world and will alert them if any faults arise. Therefore, faults can be solved efficiently and quickly which reduces downtime and optimizes the entire life cycle of the installation.

ComBricks is a modular platform able to carry repeater and fiber optic modules. Over Ethernet, the condition of the installation can be remotely inspected with ProfiTrace OE in a web browser. Monitoring does not require additional and frustrating software installations on the PC. As it is accessible through a web browser, most platforms - including mobile phones - are compatible with ComBricks. The combination of network components and monitoring makes this product an ideal choice for organizations where asset management is paramount. It raises awareness amongst technical staff because the installation becomes understandable and predictable.

Features

- Modular PROFIBUS repeater and fiber optic backbone
- Permanent PROFIBUS monitoring with ProfiTrace and oscilloscope
- Automated responder to bus problems with relay module and digital output module
- Asset management Ethernet gateway for CommDTM
- Transparent PROFIBUS data hub (repeaters, fiber optic, PROFIBUS PA, RS 485-IS, DP slave)
ProfiHub

The well-known ProfiHub family is a collection of multi-channel PROFIBUS DP network components to create reliable flexible star/tree networks and long multi-device spur lines. They are essential to obtain better control during maintenance and upgrading of the network. The use of ProfiHub results in lower operational costs and the optimization of the entire production process.

ProfiHubs are perfect economic solutions to integrate reliable spur lines in high-speed DP networks. They are equipped with galvanic isolated transparent repeaters. This allows network structures with extended spur lines that individually can handle a maximum of 31 devices and a length equal to the main bus. Each repeater blocks short circuits and other bus problems. The ProfiHub family also offers solutions to support a fiber optic backbone. The ProfiHub with fiber optic connections on the main channel can be used as multi-channel OLM. In case you only need to connect from fiber optic into a single copper segment, the ProfiHub F1 will suit your needs.

ProfiHubs are deployed in many applications worldwide and available in different varieties to meet the requirements of the end user.

Features

- Dynamic spur lines to devices
- Star, tree and bus structured networks
- Pull/Plug motor control centers
- Barrier for non-galvanic isolated equipment
- EMC sensitive applications
- Applications with device and cable stress
VPSwitch Go

The VPSwitch Go Family is a versatile series of Industrial Ethernet switches available with a full range of capabilities. The switches are available as Unmanaged, Lite Managed, Full Managed, and Full Managed with Security. These solutions are easy and quick to set up in any automation, building, or infrastructure system requiring robust design and unique capabilities.

The lite and full managed switches have an additional Modbus TCP functionality that could be utilized in a Modbus TCP server. Furthermore, the VPSwitch Go switches will work with VPGates to connect your Modbus TCP, PROFINET (non-certified), or Standard Industrial Ethernet network. With the unmanaged switches, users can create very basic networks at a competitive price. The optional fiber SFP connection removes the obstacle of long distances.

Features

- Universally accepted standards for easy integration into any Industrial Ethernet network
- Diagnostic capabilities for managed switches
- Port Mirroring
- Full Port Control
- Pre-programming via a USB stick or downloadable file
- Integrated user’s manual
- Security features such as log in security, profiles, firewall and NAT capabilities
- SFP connection of Fiber Optics, M12 connections, alarm contactor and up to IP54 weather and dust rating
VPGate

The VPGate product line is a series of gateways that enable you to connect any equipment very quickly and at low costs with a serial link to a network. We have VPGates available for PROFIBUS DP, PROFINET and Modbus TCP. All VPGates do not require any additional programming software tools.

VPGate allows for effective diagnostics via an integrated webpage or PROFIBUS and RS-232 diagnostic connections. The system also has diagnostic LEDs on the frontpanel. It supports Modbus RTU, ASCII and transparent mode. This opens up the gateway to support building, factory, process, or other types of automation. For example, HMI’s and barcode scanners commonly use raw serial protocols which could be handled by transparent mode.

The VPGate is an economically attractive solution to enable integration in an existing network. Industrial Ethernet VPGates come with the option of a customized user manual (multiple languages) for large accounts or end users.

Features

- Does not require any additional programming software tools
- Support of Modbus RTU, ASCII and transparent mode
- Indicators for easy first level diagnostic
- Customized web pages
- Termination and polarization can be enabled/disabled on serial side
PROFINET Tools

PROFINET requires other measurement tools than PROFIBUS. Measuring and solving faults on an Ethernet network is a big challenge that could result in unacceptable downtime and high operational costs. In order to avoid these issues in the future, PROCENTEC provides the perfect solution: Netilities. Netilities is a compact and efficient tool that supports engineers in their PROFINET engineering and troubleshooting tasks.

Netilities generates a live list of the PROFINET/Ethernet network and spots the devices which are in Data Exchange. Statistics provide a comprehensive overview of the network status. A detailed report provides information about the reliability of the PROFINET network. Netilities uses the standard Ethernet/WLAN port on the PC or interfaces with a ProfiTap. The best performance of Netilities is achieved when the laptop is directly connected to the mirror port of a switch, which is installed directly behind the PLC or other controller.

Features

- Real-time scan / Live List of the complete network
- Info panel for network problems (device missing, double addresses, etc.)
- Statistics (cycle times, corrupted telegrams, data size, etc.)
- Setting Device Names and IP numbers
- Topology scan based on SNMP
- PROFINET LED test
- Detailed reporting
- Suitable for other Ethernet systems
ProfiConnectors

The ProfiConnector connects the central system with different segments in a network. This connector is easy to use, highly compatible, and robust.

The ProfiConnector is designed to be straightforward for the end user. It is available in different varieties to meet the specific needs of the client. There are four types: with or without a PG connector, and with or without a screw terminal. Each type is available in five different colors to ensure that it remains clear to the user which cable leads to a particular segment in the system.

In addition to being simple to use, the ProfiConnector is also compatible with a wide range of devices. The cable of the connector is at a 90° angle from the device it is connected to. The connector has an indentation so that it fits perfectly onto the device. Finally, the ProfiConnector is made to be resistant to the potentially harsh industrial conditions of a plant. The connector has built-in strain relief for both the incoming and outgoing cable.

Other connectors

In addition to our own ProfiConnectors, PROCENTEC also distributes various PROFINET connectors from Lapp and Siemens and PROFIBUS connectors from Lapp, Siemens and Profichip. These PROFIBUS and PROFINET connectors differ slightly in design, quality and cost.

Our specialists will give you expert advice about the most suitable cable or connector for your application.

Features

- Easy to use, highly compatible and robust
- Equipped with a terminating resistor and high frequency inductors
- Available with or without PG connector
- Available with or without screw terminal
- Different colors to help users distinguish sections of the installation
Cables

Structured and robust cabling is the foundation of a perfectly operating industrial network or bus system. PROCENTEC distributes different suitable PROFINET and PROFIBUS cables from Leoni, Lapp and Siemens. These cables can be used in a wide range of applications and should therefore meet very high standards.

Features

- Standard / universal
- Moving machine parts
- Food industry
- Ground / burial
- Sunlight resistant
- Halogen free
- Rodent protection
- Shipboard
- EMC
- Festoon
- Robust
- Heat and fire resistant
Training

PROFIBUS and PROFINET are user-friendly techniques. However, training is essential to optimally benefit from all the advantages. PROCENTEC, the internationally accredited Competence and Training center for PROFIBUS and PROFINET, provides a wide diversity of training courses. PROCENTEC enables companies to successfully operate in the world of industrial automation.

The goal of our training courses is to upskill engineers in PROFIBUS and PROFINET, to ensure they can optimally use those techniques for their business objectives. Our training courses are useful both for employees who deal with that technology daily and staff that supervises at a higher level. The acquired knowledge enables them to organize and execute projects better, which means the whole lifecycle of the installation is optimized. Our offer includes training courses that perfectly combine theory and practice. We provide our training courses both in our advanced training premises and on location. Tailormade in company training courses of course are also available.

Training overview

**PROFIBUS training**
- PROFIBUS Troubleshooting & Maintenance
- PROFIBUS Product Development
- Certified PROFIBUS Installer
- Certified PROFIBUS Engineer
- Certified PROFIBUS PA Module
- PROFIBUS Product Development

**PROFINET training**
- PROFINET Technical Training
- PROFINET Troubleshooting & Maintenance
- Certified PROFINET Engineer
- Certified PROFINET Installer
- Industrial Ethernet Introduction Course

**Product training**
- FREE ProFITrace Training
- FREE ComBricks Training
- FREE Netlilities Training
Support and Consultancy

PROCENTEC has a professional team of qualified support engineers who provide on-site and online technical support. With over twenty years of experience with PROFIBUS, PROFINET and Industrial Ethernet technology, our experts are always ready to help you find the most appropriate solution. From troubleshooting to network audits and from consulting to network certification. We can help you in any of these situations so you can fully experience the advantages of your PROFIBUS or PROFINET installation.

As automation systems are increasing in complexity, it currently is quite a challenge to maintain your installation. Tracking and resolving malfunctions is a time consuming task that can lead to unacceptable downtime. This often involves unnecessary high costs. Our PROFIBUS and PROFINET experts can be deployed for a single troubleshooting situation but also on a more structured basis - from our main office in the Netherlands or on-site, anywhere in the world. Our engineers have in-depth knowledge on PROFIBUS and PROFINET technology and carry advanced products to provide a solution for the widest range of issues. At the right time and the right place.

Support services

- On-site & Online Support
- Network Audit
- Network Certification
- Consultancy
Distributors

All our innovative products and services are exported via our global distribution network, enabling our customers to operate successfully worldwide in the sector of industrial automation.

- If your country or region is not listed, please contact us
- We are still searching for distributors who can cover complete areas or countries
- PROCENTEC is the only distributor for PROFIBUS ASICs and cables