

# PROCENTEC



**The PROFIBUS and PROFINET company**



## About PROCENTEC

**PROCENTEC is a specialist in PROFIBUS and PROFINET technology and develops products to optimise 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 processes.**

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 centre 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 of the opinion that the industrial markets need the confidence of believing in the reliable PROFIBUS / PROFINET technology and applications, to ensure their processes are not threatened in any way and the continuity remains guaranteed. In view of the possible negative consequences and impact in that industry, we therefore think that those companies have the right to the best solutions and honest expert advice. Based on that belief, PROCENTEC continues to innovate and develop, which makes us the most reliable service provider and knowledge partner for our customers. We do all of this with total dedication.

We believe that it is important to communicate with our customers, partners, distributors and suppliers in a transparent and decent way. We are empathic, truly interested and passionate in everything we do. Quality, continuity, service and sustainability are essential to us. That enables us to provide our customers with groundbreaking and tailor-made solutions.

## Products

- ProfiTrace
- ComBricks
- ProfiHub
- PROFINET tools
- Cables and connectors

## Training courses

- PROFIBUS training courses
- PROFINET training courses
- Product training courses

## Services

- Competence centre
- Support & Consultancy
- Network certification & Audits
- Testlab & Democenter





## ProfiTrace

**ProfiTrace is the most powerful mobile analyser 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 analyser results in a higher uptime, lower operational costs and the optimisation 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

**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 optimises the entire life cycle of the installation.**

ComBricks is a modular platform able to carry repeater and fibre 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 organisations where asset management is paramount. It raises awareness amongst technical staff because the installation becomes understandable and predictable.



## Features

- Modular PROFIBUS repeater and fibre 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 optimisation 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.

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 centres
- Barrier for non galvanic isolated equipment
- EMC sensitive applications
- Applications with device and cable stress



## 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

- Realtime 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



## Cables & Connectors

### Cables

Structured and robust cabling is the foundation of a perfectly operating industrial network or bus system. PROCENEC 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.

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

### Connectors

PROCENEC 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.



## 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 centre 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 professionalise 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 organise and execute projects better, which means the whole lifecycle of the installation is optimised. 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

- Certified PROFIBUS Engineer
- Certified PROFIBUS Installer
- Certified PA Module
- PROFIBUS Troubleshooting & Maintenance
- PROFIBUS Product Development
- ProfiTrace Training (free)

### PROFINET training

- Certified PROFINET Engineer
- PROFINET Troubleshooting & Maintenance
- PROFINET study day





## Support and Consultancy

**PROCENTEC offers a full package of services to effectively assist end users in the implementation procedures, certification processes, audits and malfunctions. Our experts control all aspects of the PROFIBUS and PROFINET technology and provide innovative solutions for optimal operation of your installation. That way, we help end users to have an installation that performs optimally throughout its complete life cycle.**

It currently is quite a challenge to maintain a PROFIBUS or PROFINET installation. Tracking and resolving malfunctions is a time consuming task that can lead to unacceptable down time. This often involves unnecessary costs that can become very high. Our PROFIBUS and PROFINET experts can be deployed ad hoc and on a periodical basis to assist you – from our Weteringen offices or on location, anywhere in the world.



## Services

- Troubleshooting
- Network audit
- Installation audit
- Installation certification
- Product certification
- Support



## 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.

	Argentina	eFALCOM		Mexico	Grid Connect Inc.
	Australia	I S Systems Pty Limited		The Netherlands	PROCENTEC
	Austria	Tyco Flow Control Pacific		Norway	AD Elektronik AS
	Belgium	PROCENTEC GmbH		Poland	INTEX Sp. z o.o.
	Brazil	Bintz Technics N.V.		Romania	S.C. SVT Electronics S.R.L.
	Canada	Westcon Instrument. Indl Ltda		Saudi Arabia	ASM Process Automation
	Chile	Grid Connect Inc.		Singapore	ISEP (S) Pte Ltd
	China	RP Ingenieria Limitada		Slovakia	ControlSystem s.r.o.
	Czech Republic	PROCENTEC Beijing		South Africa	IDX ONLINE CC
	Denmark	FOXON s.r.o.		Spain	LOGITEK, S.A
	Finland	ProSaiCon		Sweden	P&L Nordic AB
	France	Hantekno Oy		Switzerland	Berner Fachhochschule - Technik und Informatik
	Germany	AGILICOM		Taiwan	PROFIBUS Kompetenz zentrum
	India	PROCENTEC GmbH		Turkey	Full Data Technology
	Ireland	UL Engineering Services & software Pvt Ltd		United Arab Emirates	Emikon Otomasyon
	Israel	PROFIBUS Ireland		United Kingdom	Synergy Controls
	Italy	Instrumetrics Industrial Control		United States	Verwer Training & Consultancy
	Japan	C.S.M.T. Gestione S.C.A.R.L.		Vietnam	Hi-Port Software
	Korea	GENOA FIELDBUS COMPETENCE CENTRE Srl			iTech
	Lebanon	TJ Group			Parkelect LTD
		Hi-PRO Tech. Co., Ltd.			Grid Connect Inc.
		Industrial Technologies S.A.L. (ITEC)			Bavitech Corporation

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



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