

BARTEC Safe.t[®] news

Customer Information from BARTEC



BARTEC at the INTERKAMA⁺ 2004 in Hannover

The INTERKAMA⁺ is moving from Düsseldorf to Hannover presenting itself – for the first time this year – in occasion of the HANNOVER TRADE FAIR. A decision both exhibitor and guest will benefit from. The fair is now offering a worldwide unique program of process and manufacturing automation. The product portfolio includes automation and IT solutions, field devices and components, switch and control gear as well as engineering, maintenance and services. From 19 to 24 April 2004, some 800 international exhibitors are presenting a variety of new products and system solutions to an expert audience.

The visitors to the BARTEC stand will be presented a variety of safety technology solutions in form of innovative components, systems and services. The following product ranges will introduce their special highlights: In Control and Connection

Equipment, BARTEC is showing an extensive range of explosion-proof components and devices for switching, monitoring, controlling in explosive dust environments. All of them, of course, ATEX-certified!

In Electrical Engineering, BARTEC is introducing its safety systems, energy and drive technology for mining as well as explosion-proof electric motors. In Analyzers and Measurement Technology, BARTEC is pointing out its technological leadership by way of temperature and humidity sensor devices as well as its high-tech vibration measurement systems.

With its heating components and systems for process heating, temperature maintenance and frost protection, BARTEC offers a complete product portfolio being thus the perfect partner when it comes to overall system solutions.

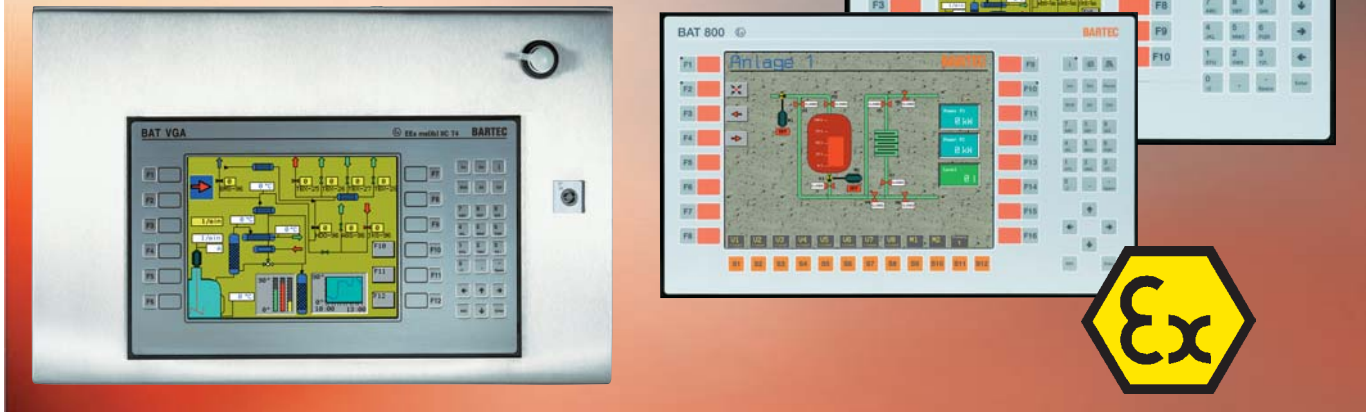
The innovative Ex visualisation, identification and communication systems of the BARTEC automation system are integrated in a variety of processes and plants.

BARTEC BENKE Process Automation Technology stands for monitoring and optimisation solutions for production processes in refineries, the chemical and pharmaceutical industry.

Visit us at our stand at the INTERKAMA⁺ 2004 and allow our experts to update you on the latest developments regarding safety technology and European Standards (ATEX).

You can find the BARTEC stand with all our product highlights and qualified personnel in hall 6, stand K32.

Explosion-proof Display Terminals



Visualization, display and control of processes on site in explosive atmospheres are perfectly normal these days. Automation technology in Ex areas is part of the BARTEC product strategy; visualization systems are given top-priority.

To meet our customers' requirements on explosion-proof display systems, we are continuously advancing our 15" and 18" Remote Stations as well as the display terminal software program.

Besides the well proven **BAT VGA pro**, the **BAT 300** and **BAT 800** Display Terminals, the youngest members of this product range, are also available.

Both are **ATEX-certified**. The **BAT 300** features a 5½", ¼ VGA graphics-capable colour display, the **BAT 800** a 12", SVGA graphics-capable colour display. The display uses the latest TFT technology allowing even extreme reading angles. The unique feature of the two innovative products is their brightness of up to 400 cd/m² also in the Ex area.

Like their „older“ colleagues, the new **BAT 300** and **BAT 800** terminals can be connected without additional intrinsically safe separator cards directly within the Ex area. A clear advantage when it comes to costs because communication with the terminals no longer requires intrinsically safe spur lines.

The innovative modular interface technology allows the realization of an uninterrupted bus concept, e.g. Profibus-DP or INTERBUS, without additional expenses right into the Ex zone I. Direct terminal connection to a central control system or a PLC is possible via direct serial cable.

The following interface modules are available: TTY, RS422/RS485, PROFIBUS-DP, INTER-BUS as well as an intrinsically safe module for the connection of other Ex-certified hand scanners (BCS 302^{EX}-Phaser).

Visualization is made easy by way of the BMS Graf pro programming software, which has been developed and optimised for the BAT product family.



BCS 302^{EX} Hand-held Scanner Phaser for the Use in Ex-zone 1

The new hand-held **BCS 302^{EX}** scanner by BARTEC offers the ergonomic characteristics and technical features required for today's industrial applications. The **BCS 302^{EX}** complements the existing product family of identification units.

Thanks to the integrated „fuzzy logic“ technology, the scanner first evaluates the barcode quality and then compensates all weaknesses.

The hand-held scanner stands out due to its excellent first-time reading accuracy of all barcodes (low-contrast, high-density symbols). Even coloured labels or dirtied barcodes are read without problems.

The **BCS 302^{EX}** comes in a very robust housing standing up to even the most unfavourable uses and surroundings.

Even falls from as high as 1.8 m onto concrete leave the scanner without the slightest damage.

The **BCS 302^{EX}** is ATEX-certified. Via plug-in connection, the scanner is attached to an also ATEX-certified power pack directly within the Ex area. The power pack connects to the superior system.

Safe Solutions for the Ex Bus Technology

DC 24 V / 2 A Power Supply for Ex zones 1+ 2



The newly developed **DC 24 V / 2 A power supply** unit by BARTEC is a preassembled unit with wide range input.

The unit has been developed for the supply of electric and/or electronic loads and consumers directly in the Ex zones 1 and 2 and up to a maximum total power input of 2 A.

The **DC 24 V / 2 A power supply** by BARTEC is a universal unit with wide range

input. The compensating voltage is stabilized, galvanically isolated and short-circuit proof.

In case of very high demands on operational safety, several power supply units can be connected in parallel via separate output in order to obtain a redundant power supply for the connected loads.

Successful Launch Ex Remote I/O System 750 i

The central idea of teaming up with a partner to develop a system that was already well-known on the market into one that could be used in explosive atmospheres has been a real success.

Decisive was not only the good product idea but the selection of the right partner.

With WAGO and the Remote I/O System 750 i, we have found the perfect match.

BARTEC advanced the compact I/O system 750 supplementing it with power circuits for the Ex zones 2, 1 and 0.

With its extensive bus interface options from Modbus over Profibus DP up to the ETHERNET TC/IP, the system has been

integrated in the wide world of communication and information technology. You can use it to realise small local applications, you can integrate it in the web. Remote maintenance and service are thus guaranteed worldwide.

The EEx i-components for standard signals now available on the market round off the system.



New BARTEC Presence

Safety Components with ATEX Test Certificates Now in German and English Online, on CD ROM and as standard print catalogue

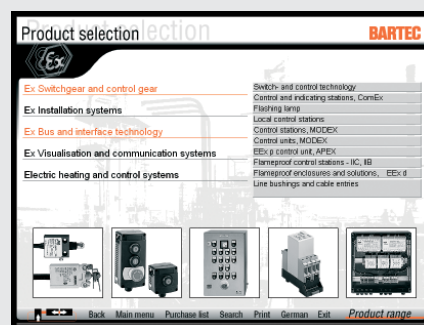


The main catalogue for safety components and the electronic catalogue contain the complete delivery program of Ex switch and control systems, Ex installation systems, Ex bus and interface technology, Ex visualisation and communication systems as well as electric heating and control systems. You can choose your language (German/English) directly at each information level.

Fast and simple handling as well as user-friendly prompts have remained the same on both CD ROM as well as online. Several search criteria and a picture-supported index on the CD ROM allow a straight-forward access to the desired product. The product information includes illustrations, technical data, and technical drawings with dimensions as well as system descriptions.

New on the electronic catalogue are the links to the ATEX test certificates either from the product itself or straight from the selection list. The test certificates can also be downloaded as pdf.files. The products for dust explosion protection have been tied up in a „product group“ and can now be accessed fast and easily via direct link.

You can start the electronic product catalogue directly from the CD ROM, optimum performance is guaranteed without having to install it on your hard disk. On the Internet, the direct way to our catalogue is at www.bartec.de/safety-components



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