

BARTEC Safe.t[®] news

Customer Information from BARTEC

The countdown to ACHEMA 2003 is running



BARTEC's stand at the ACHEMA 2003 fair in planning.

The ACHEMA fair opens its doors in Germany at Frankfurt's Exhibition Centre from 19th to 24th May 2003.

This global forum for the processing industry will show new solutions in chemical engineering, environmental protection and biotechnology. The focus on BARTEC's stand will be on products for automation engineering in hazardous areas and OEM systems for manufacturers of explosion-proof equipment and electrical trace heating systems.

A further core topic is measurement and sensor systems. We will be presenting new solutions for measuring humidity in

aggressive and explosive gas environments, plus infrared sensors for high ambient temperatures.

Divisions of the BENKE company from Reinbek/Hamburg were integrated into the BARTEC-group in March 2003.

BARTEC BENKE, providing 40 years of experience and expertise in analysis equipment and systems for monitoring and optimising production processes in refineries. The newly created BARTEC BENKE division, with 300 specialists, assumes responsibility for planning and supplying components and systems through to on-going servicing of plant.

You will naturally be able to get to know BARTEC BENKE at ACHEMA. We will be showing the new analysis technology NIR (Near InfraRed Systems) in Frankfurt which is designed to make continuous online comparisons of the composition, physical properties, parameters and quality of production materials.

This system, which has been certified to ATEX guidelines and the international ASTM D 2386/5901 standards, will be an eye catcher on our stand. Try not to miss it!

Farewell until the fair in Frankfurt!

ACHEMA 2003 Hall 10.2 Stand F19-J21

+ + + Product News for ACHEMA + + +



The highlights in the range of ComEx control and display devices range are the new illuminated buttons and indicators: improved brilliance and brightness increase on-site safety.

Every device in the ComEx control and display range, naturally including all accessories, has received EC type examination certificate from PTB for zone 1 and zone 21.

We will be informing you on our stand about the following:

- Illuminated push buttons
- Large position selectors with protective collar, max. 3-times lockable
- Affordable RONIS keylocks
- Special offshore actuators for extreme conditions

Explosion-proof plug-and-socket devices

BARTEC's range of control and connection equipment has been expanded to take on explosion-proof plug-and-socket devices.

The supply range includes plugs, wall sockets and modular sockets for currents of up to 16A, 32A and 60A.

Their antistatic enclosures are made of self-extinguishing, glass-fibre reinforced polyester. They are resistant to UV, chemical agents and shocks.



Features

- Universal deployment (certified for zones 1 and 2 and zones 21 and 22)
- High level of protection IP 66/67
- Integrated switching capacity according to IEC/EN 60947-3 Cat. AC22 or AC23
- Silicone free



Now also available with touch screen!



15" Work station

15", 17" or 18" Remote station

Features

- Upgraded to 1 GHz of computing power
- Adjustable background illumination
- Suitable for clean rooms
- No additional barriers required in the safe area
- Up to 300 cd/m²

The tried-and-tested workstation and remote station are now also available with a touch screen.

Apart from the touch screen, the workstation has also been upgraded with more computing power, now 1 GHz. This means it can meet the strictest requirements of modern process control engineering in hazardous areas.

The remote station is available in three models for all applications which require

more computing power or for applications in which the PC is also set up outside hazardous areas.

You can choose between a 15", 17" or 18" display for the remote station.

Combined with the new stainless steel enclosure that has been launched very successfully onto the market, these devices make us your first port of call for complete visualisation systems, including outdoor applications. Try us out.

DEPU from BARTEC – the complete solution for trace heating pipes

DEPU is an ATEX approved, universal ON-SITE solution for controlling/limiting temperature and for controlling power.

Method of function The temperature controller works as a two-point regulator which allows two target values to be set. The first set-point (retention temperature) addresses the integrated power control unit which regulates the power supplied to the heating tape. The second set-point (alarm temperature) makes it possible to generate an alarm signal if the temperature becomes too high or too low.

The temperature limiter works as an autonomous system parallel to the temperature controller. Its set-point determines the limiting temperature of the heating cable (HOT SPOT).

The power control unit with a nominal current of 25A enables the heating circuit's output to be optimally adapted to the length of the heating circuit with fixed resistor

heating cables. This ensures great flexibility should the heating circuit need to be extended or reduced. The full-wave control excludes adverse influences from the mains power supply.

Freely available PT 100 sensors with a three-conductor switching arrangement can be connected to the measuring inputs of the controller and limiter. The current temperature of the pipe being heated and the limiter temperature that has been set can be read off from the bright LED displays.

The device recognises errors, such as temperature overshoots and undershoots, gauge breaks or short-circuits and thermal overloads, as they occur. These malfunctions are displayed visually, the heating circuit is switched off and a group error message is issued via a potential-free



contact. The interlocked error message from the temperature limiter can be reset with a button on the device, and/or with an external button.

Assembly/connection Power cables with a cross-section up to 6 mm² can be connected simply through cable glands to connection terminals.

Summary Optimum price/performance ratio, economic to use and universal deployment in explosive atmospheres - DEPU from BARTEC.

Expertise in all dust explosion protection systems

BARTEC safety technology for zones with combustible dust



The EC-directive 1999/92/EG will become valid in July 2003 and set the requirements on plant and operating equipment, including zones with combustible dust, to one European safety level. The creation and processing of combustible dust in mills, carpentry shops and in pharmaceutical applications are further areas in which explosion-proof operating equipment is required.

Over the course of almost 30 years, BARTEC has acquired a leading position among suppliers of safety technology. Operators and constructors of industrial plant rely on our specialist knowledge for both, components and full system solutions. The experience our specialists have in planning and implementing projects and our know-how in matters of certification provide the basis for best working results.

Our range of services for hazardous areas by explosive dust comprises

- Plant planning
- Support for new developments
- Electrical operating equipment
- Seminars

The new dust explosion protection catalogue, which can be ordered free-of-charge from DUSTEX@BARTEC.de, provides a detailed review of dust explosion protection systems and of BARTEC's range of services.

The network for safety engineering

Each site has its specialists and each site has its own particular focus.

Our experts at these 6 sites have many years of experience and create solutions that you can rely upon.



Gotteszell, D,
electronics



Reinbek, D,
automation technology



Menden, D,
electro technology



Zagorje, SI, electro
machine construction



Sainte-Croix, CH
heating technology



Bad Mergentheim, D,
precision mechanics

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Karlskrona/Sweden

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Rochdale/Great Britain

BARTEC Nederland b.v.
Ridderkerk/Netherlands

BARTEC Belgium N. V.
Tessenderlo/Belgium

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Elektrotechnik GmbH
Vienna/Austria

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Zagorje ob Savi/Slovakia

BARTEC S.r.l.
Melegnano/Italy

BARTEC S.A.
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Kaohsiung/Taiwan, Bangkok/Thailand, Istanbul/Turkey, Abu Dhabi/United Arab Emirates

Australia

Representative office: Sydney

1200 BARTEC employees are engaged in safety engineering throughout the world: www.bartec.de