

Plant construction today

As a rule, plants are still constructed in a conventional way nowadays. This means that not only PLC/PCS with input and output cards but also isolating cards and a routing level are installed in the control centre in the safe area. This necessitates very extensive wiring both in the control cabinet and into the field. Having a lot of terminal points in the routing level in the main distributors and field distributors is complicated and carries risks of errors. Extensions and alterations require long-term planning.

Innovative and practice-oriented

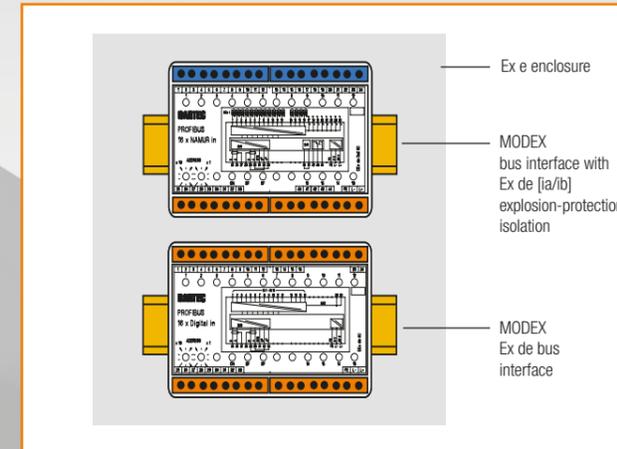
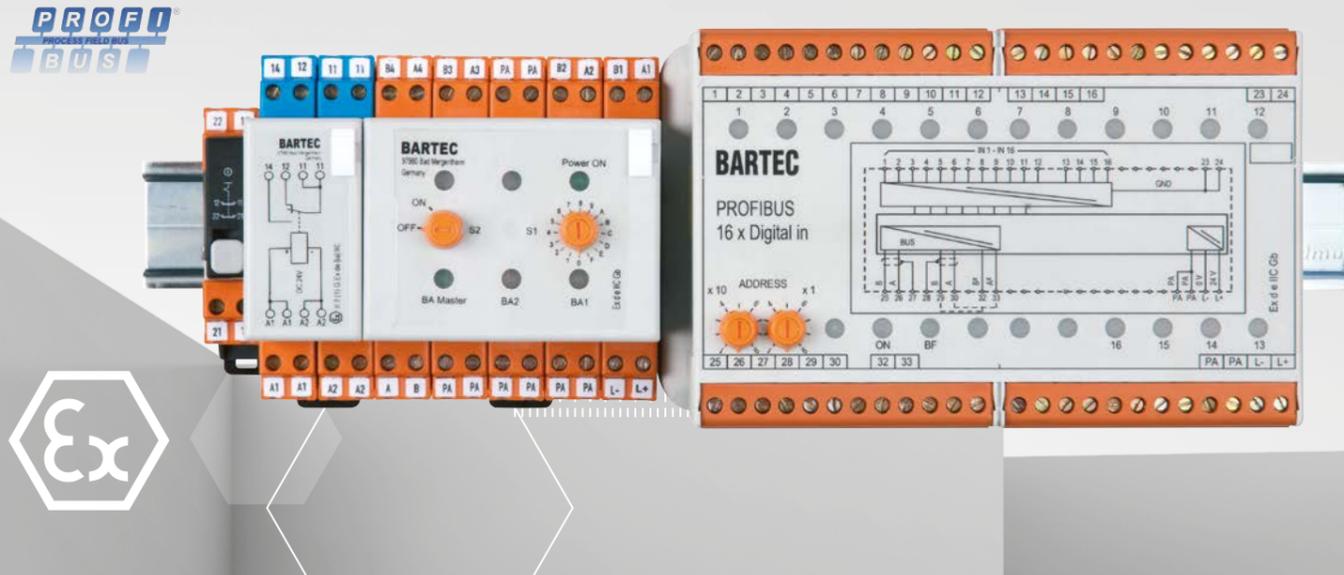
MODEX bus modules make it possible to conduct standard bus systems continuously from safe areas into hazardous areas.

- Significant space savings in the control area
- MODEX replaces the I/O level, explosion-protection isolation, routing levels, main and field distributors
- Bus cables replace extensive parallel cabling or master cables
- Flexibility in planning and engineering
- Significant cost reductions
- Standard PROFIBUS DP

The intrinsic safety type of protection is often used for components with low power requirements. The advantage of intrinsic safety lies in the handling or, to be more precise, in the replacement of sensor and actuator technology. However, motors, valves and heating are operated in addition to intrinsically-safe sensors in hazardous areas. These require much higher levels of power than can be switched with intrinsically-safe circuits.

Using standard bus systems in hazardous areas

By using MODEX bus modules, it is possible to conduct standard bus systems continuously from safe to hazardous areas – simply and without much work or expense. It is merely necessary to observe IEC 60079-14, which regulates the installation of electrical installations in hazardous areas.



Theory and Practice

The desire for the ideal field bus in which a lot of actuators and sensors are networked in one system can only become reality with intricate work and great expense. Simple components, such as e.g. proximity initiators and end-position switches, would become much more expensive than they usually are at present if they had to be provided with an international interface for communication on the bus.

Combination is the key word

You have measuring and control circuits with varying types of protection and wish to connect them through one system? BARTEC offers the solution in the form of a combination of types of protection, bringing you the benefits of:

- Flexibility, functionality and a high degree of safety
- For intrinsically-safe measuring circuits with a low level of power
- To supply to consumers with a high level of power

Local control stations

Decentralized MODEX local control stations are stainless-steel, polyester or aluminum enclosures into which varying MODEX components are installed to suit the respective task.

All BARTEC enclosures are certified in accordance with the European standard and satisfy a range of requirements including impact resistance, aging, antistatic and the IP degree of protection. The fitted MODEX I/O and interface components and the combination of enclosures and modules as local control stations have also been granted approval.

BARTEC

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for safety
technology.
Challenge us!

