



Communication
Life and Safety Critical Communication Systems

Voice, Alarm Tones and Light Signal Systems

Life and Safety Critical Communication Systems

When safety matters, failure is not an option.

System Solutions Customised Solutions International Approvals



Optimum solutions for your application

As specialists in high integrity life and safety critical applications, our systems are based on a unique firmware design to eliminate latent software issues and delivers high security by preventing casual or unauthorised modifications. Our dedicated design expertise and experienced systems installation personnel are your guarantee of the very best PA/GA systems performance.



Your partner for life and safety critical communication systems.



PAGA Systems

Page/Party Communication Systems

Driller's Intercom systems

The specialists from BARTEC VODEC have many years of experience in communication and personnel safety. They create solutions you can depend on: economical, reliable and future-proof.

PAGA Systems

BARTEC VODEC design, manufactures, supplies and commissions Public Address and General Alarm Systems [PA/GA] specifically for aggressive industrial situations where reliable operation is required in climatic extremes and/or potentially explosive atmospheres.

Additionally, for use in hazardous areas, the P3-PAGA central system can be supplied in an Ex p/ Purged cabinet. Design options include NORSOK, PFEER, ABS, SOLAS and GOST tones and all redundancy configurations:

- Fully duplicated A+B configuration
- Hot-Standby N+1
- Combination of A+B and N+1 for ultimate security



Driller's Intercom Systems

The BARTEC VODEC Driller's Intercom has been specifically designed to allow simple, hands-free communications on drill rigs.

System operation is very simple and easily controlled. Sensitive knee/thigh/foot switches in the driller's cabin avoid issues with keypad selection while wearing heavy gloves. Field stations are similarly designed to be rugged and easy to use. User configuration is very flexible, allowing multiple sets & even dual driller's chairs.

The Driller's Intercom incorporates the same indestructible amplifier as our PAGA package, plus out-stations and paging loudspeakers, achieving the best systems integrity for worker safety.

Page Party Systems

BARTEC VODEC offers a Page Party system, either within the PAGA package or as a separate standalone system. Page Party is where a station requests other people (page) to join a multi-user telephone conversation (party).

Operation is very simple with no PABX dialling required, and the system incorporates the highest integrity components (no rotary switches, no complex cabling requirements). The system easily combines safe area and hazardous area stations.

- Single Button Paging
- Pushbutton operation
- 2-wire cable installation

Loudspeakers

Flashing beacons

Acoustic hoods



Engineering

- FEED involvement
- Speaker location optimisation
- Acoustic studies
- Detailed engineering

International approvals

- ATEX, UL, CSA, INMETRO, GOST, NORSOK, PFEER, SOLAS, DNV others on request

Services

- Systems commissioning
- As built documentation
- Operator training
- Maintenance contracts



PAGA System

The P3 system is life and safety critical apparatus, providing vital voice communications and alarm tones for the essential duty of worker protection.

- Class leading availability through constant Critical Path Monitoring
- High power, high efficiency, low weight
- Low maintenance
- Modular approach
- Small footprint



Driller's Intercom

A secure range of intercom systems, to ensure two way communications between master (Driller) and Slaves (subscribers).

- Up to 32 subscribers
- Hazardous area installations



PABX/Page Party

A unique solution to the PABX/PAGA requirements of the facility

- Standalone or as an additional capability
- Page/Party provides simple and efficient two-way communications to remote personnel across the facility, even in hazardous areas.



Warning devices

Vital instructions and alarm signals are intelligibly broadcast around the installation by using a wide range of industrial and hazardous area loudspeakers. In areas that have a high ambient noise these signals are enforced by using flashing beacons.

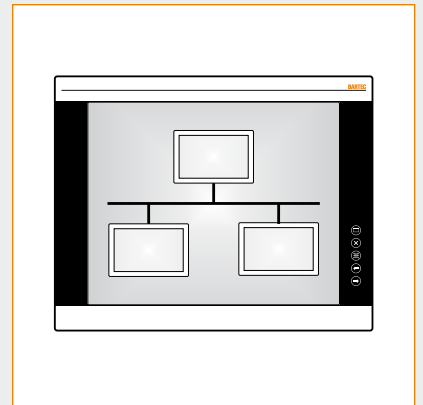
- Flashing Beacons
- Sirens
- Loudspeakers



Acoustic hoods

The acoustic hoods from BARTEC VODEC provide class leading noise reduction.

- Up to 23 dB attenuation
- Allows telephones and similar devices to be used in high noise areas
- Can be provided as stand alone or installed with telephones, beacons and sounders
- Can be located in hazardous locations



Remote diagnostics

Incorporating Ethernet-based multidrop communications, users can monitor and diagnose faults remotely. Events and actions are recorded for offline analysis.

- Fault diagnosis down to individual amplifier/zone
- Expert system guidance for maintenance
- Isolated from systems logic; maintains security of systems design
- Integrates PAGA status into SCADA or DCS package

BARTECVODEC

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**THE BARTEC Group**

Over the last 40+ years, BARTEC has built a leading position amongst suppliers of safety equipment – worldwide. This has been achieved through innovative product design and engineering excellence, with testing and conformance to international standards.

BARTEC protects people and the environment through the safety of components and systems.

BARTEC embodies 40+ years of experience and specialist knowledge in process applications, systems engineering, construction and service. We deliver so that you can optimise control and production processes in your plants.

Partner with our engineering competence and design capability in:

- Plant construction and operation in Oil Refining, Petrochemicals, Chemicals, Pharmaceuticals, Environmental Protection and Energy
- Construction of machines and automation
- Engineering for process industries
- Food industry

BARTEC is always close at hand.

Our regional specialist teams, over 30 operating entities and more than 50 specialist representatives bring BARTEC expertise to you, wherever you are.



Head office of BARTEC in Bad Mergentheim, Germany



BARTEC VODEC in Nottingham, United Kingdom