

# EXPERIENCE



# INNOVATION

# SAFETY IN CONTROL





Wirac Automation Ltd is an innovative and experienced British company specialising in the design, manufacture and installation of electrical control systems. The company offer a complete package from the initial design stage, through assembly of hardware and writing of software, to installation, particularly for hazardous areas and other safety critical applications.

Since its formation in 1991 the company has built an enviable reputation for quality, reliability and customer service. This has been achieved by developing close working relationships with clients, both in the UK and overseas, to ensure cost effective and practical

solutions are provided to meet their needs. Quality assurance is a proven management principle and the company quality systems are accredited to ISO 9001.

In-house knowledge and expertise covering the various European and international standards relating to hazardous area electrical applications, and machine safety, enables the company to provide a level of response second to none. A dedicated team of experienced and skilled engineers and designers provide a comprehensive service from initial risk assessment, through system design, manufacture and installation, to final certification for an extensive range of electrical control applications.

Whatever your needs in electrical control, Wirac Automation can provide the solutions!



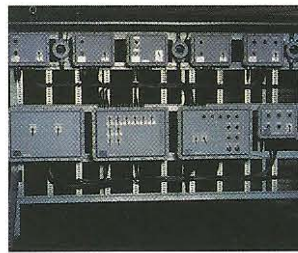




## CONTROL PANELS

Wirac Automation produce control panels for an extensive range of applications. Although specialists in hazardous area installations we also manufacture panels to customer specifications for most applications. All control panels are fully supported with the relevant documentation including drawings, parts lists and certification where appropriate.

For installations in hazardous areas we offer flameproof, purged and intrinsically safe designs, fully tested and certified at our factory. As authorised assemblers of EExd control panels we can provide fully certified customised panels for gas groups IIb & IIc



covering an extensive range of applications from small junction boxes to large instrument panels.

## HAZARDOUS AREA INSTALLATIONS

European standards relating to the manufacture and use of electrical equipment in hazardous areas are produced by CENELEC and are mandatory for installations throughout the European Union plus other signatory territories. The three controlling standards are:

- Ex/EN 50 014 - General Regulations
- Ex/EN 50 018 - Flameproof Casing <d>
- Ex/EN 50 019 - Increased Safety <e>



# SAFETY IN CONTROL

## MACHINE AUTOMATION AND SAFETY

- EMD - "European Machinery Directive"
- PUWER - "Provision & Use of Work Equipment Regulations"
- EMC - "Electromagnetic Compatibility Regulations"
- CE Marking

From January 1st 1995, all suppliers wishing to sell machinery in any EU country must ensure their products comply with all relevant legislation, including the requirements of the European Machinery Directive (EMD). The product must then be certified as complying and the "CE" mark applied. The EMD also applies to users, as overhauled, rebuilt or modified machines and second hand machinery must also comply. From January 1st 1997 all electrical machinery including existing installations must now satisfy the requirements of these regulations.

The "CE" mark is applied to equipment meeting "Essential Health & Safety Requirements" (EHSRs) and is governed by two pieces of legislation - EMD for new equipment, and for existing machinery, the "Provision & Use of Work Equipment Regulations" (PUWER). In addition, certain products may also fall under the "Electromagnetic Compatibility Regulations" (EMC). In these cases the product must also meet these regulations before "CE" marking is applied.

Wirac Automation offer a comprehensive service to assist you meet your legal obligations under both







## NITROGEN GENERATORS

Wirac Automation Ltd can meet all your needs on it's Noblegen Gas Generators, including the supply of spares kits, components and accessories.

LABGAS+, is the latest in laboratory gas generators, the units are controlled by an HMI touchscreen, featuring flow rate, pressures, trend graph, auto-start / stop, with the option of oxygen analyser. Gas generators eliminates the need for costly, inconvenient high pressure gas cylinders in the work place.

With or without an integral oil free compressor, the generators deliver a continuous flow of gas without the need for secondary purification.

The 'MAXIMUS' range is the industrial range of PSA Nitrogen Gas Generators from Noblegen.

Noblegen offer two different units the Maximus Lite, which is a medium flow generator or the original Maximus which is a high flow modular system.

Utilising the reliable and efficient PSA technique of separating Nitrogen and Oxygen is used to produce high quality Nitrogen Gas at various flows and purities.



The generator is controlled using the latest in HMI touch screen technology to display the process, pressures, dewpoint and oxygen levels with continuous monitoring complete with alarms. All the maximus range now incorporate Noblegen's 'PDS' Energy Management Technology.

•Quality - Full 2 year warranty, life time warranty on the carbon molecular sieve.

•Reliability - Designed and built for +10 years operation with minimal maintenance.

•Safety - Low pressure operation, 24v dc internal control voltage, small internal stored volumes.

•Environmental - One delivery of a Noblegen gas generator and eliminate regular deliveries of gas cylinders or liquid gas supplies.

•Efficient - Install a Noblegen gas generator and concentrate on carrying out your work. Remove the need for relying on external gas supplies, monthly ordering, invoicing, future cost increases and other items associated with gas cylinders e.g. regulators, pipe-work, storage areas and health and safety issues.

# GAS GENERATORS

## SKID SYSTEMS



Complete packaged systems for floor, skid or container mounting are available.

Our experienced design team can package complete nitrogen systems from variable speed compressors, compressed air dryers, filters, Gas Generator, boosters and associated equipment to meet any gas requirement, giving the most efficient on-site gas generation package available.

Utilising energy efficient drives, DDS (dew-point dependant switching) desiccant dryers and PDS (purity dependant switching) nitrogen gas generators use the most advanced control methods of providing some of the most efficient packaged on-site gas systems available in the World today.

Please feel free to send us your full on-site gas requirements for a packaged system proposal.







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