

Cost efficiency in hazardous areas: Economically designed enclosures for a wide range of applications

By Colleen Williams, marketing executive, R Stahl

R. Stahl has developed a new cost-efficient design, series 8150 for 'increased safety'-protected sheet steel enclosures for a wide range of applications. The enclosure layout has been optimised, thus creating a balance between cost and function for Zones 1 and 2. As of now, the enclosures are available with a complete ATEX and IEC certification for hazardous areas.

UL and CSA approvals will follow by the end of the year, thereby providing worldwide certification. The enclosures, including all built-in components, are certified ex works. All suitable terminal equipment has been thoroughly specified in order to provide maximum safety. In order to test compliance with Ex e requirements, R. Stahl carries out in-house computer calculations and tests in climate chambers, which simulate long-



term use in extreme environments. The enclosures not only fulfill all requirements concerning shock resistance, maintenance of IP

protection etc.; their mechanical layout and equipment configuration have been designed to ensure practical functionality.

The door, which is equipped with robust hinges, has a 130° opening angle and can be fitted with an optional camlock, thus ensuring fast and easy access. The sealing strip below the lid is protected by a drainage edge which drains water below the seal. Thus, the sealing material is never in contact with standing water even during constant spray exposure. In addition to continuously welded edges, the enclosures also feature welded hinges, which rules out weak spots caused by screws. Cost-efficient models in a wide range of standard sizes are available direct from stock. If required, the enclosures can also be manufactured with customer-specific measurements. ■

R.Stahl Remote HMI for the next generation

By Colleen Williams, marketing executive, R Stahl

R.Stahl is pleased to be behind the latest Remote HMI next generation ET/MT-5x6, an innovative product developing upon the gaps of earlier models.

Remote HMI's are PC and transmission units which can be displayed in safe area. This can consist of the display unit (monitor) and operation (keyboard, mouse, etc.) in the hazardous environment. The transmission unit (KVM box) is connected to the keyboard, mouse and graphics interfaces at the PC.

This version of HMI can be connected to any system, new or old. Specifications include VGA & DVI graphics, USB & PS/2 Keyboard/ mouse, Card

reader and barcode scanner. Full and easy integration of input devices is a bonus. Touch-screen is included without the requirement for additional software, all of which is very user-friendly. No system calibration is required.

The Remote HMI next generation ET/MT-5x6 also allows digital data transfer via ethernet, WLAN/ Bluetooth connectivity, loss-free digital transfer regardless of distance, no calibration of transfer distance and up to 4 remote displays per KVM box at one PC

Internal modularity, no full encapsulation (acc. to Ex-i or Ex-m) flexible components. Thanks to

this, modules can be exchanged (also on-site); full Ex m allows complete exchange, for Ex q repairs are carried out by manufacturer.

The KVM box (LEDs) allows efficient diagnostic tools for power, ethernet link, ethernet 100 Mbit/s and data channel via ethernet.

Overall this is certain to be a valuable addition to the Stahl range, with such a range of possibilities to suit automation requirements. ■

For further information
call 0121 767 6400
or email info@rstahl.co.uk



***New* Remote HMI next generation ET/MT-5x6**

- Simple and affordable installation at VGA and DVI graphic cards.
- Mouse and keyboard interfaces via PS/2 and USB
- State-of-the-art data transfer via Ethernet guarantees loss-free data transfer across distances of up to 2 km (optical fibre)
- Use of Remote Station as Thin Client without KVM-Box
- Full integration of input devices (keyboard, mouse/ trackball, touch screen) without special software in the connected PC
- Touch screen support with full mouse emulation

STAH

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member of our
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A world leader in control for hazardous areas

By Jim Craig, managing director, JCE Group

Aberdeen based company the JCE Group, is a global company specialising in the design and manufacture of high performance control systems for applications where both hazardous and non-hazardous conditions exist. From their key locations they provide a comprehensive service to all their customers across a broad spectrum of industries.

The company produce internationally approved flameproof (Exd) enclosures and assemble complete systems for both Ex and Safe Area units into which a wide range of electrical equipment can be fitted.

JCE Group offers clients a complete service from initial concept and design through to installation, commissioning, ongoing maintenance and technical support on a worldwide basis.

With manufacturing facilities in Aberdeen, Plymouth, Singapore and Houston, the Group also has local partnerships with companies in various areas of the world, including: - Kazakhstan, Australia, Qatar, UAE, France, Italy, Malaysia, Azerbaijan, Iran and Brazil.

As a manufacturer of certified equipment, the Group operate a quality management system (BS EN ISO 9001:2008) to guarantee service and product excellence.



JCE Group being an innovative company continually strives to improve and develop their product range further, and to push their products to the forefront of the industry. Innovations include PLC and embedded controller electronics which enhance conventional control packages, low cost CCTV systems for hazardous areas, zone 1 solar panel systems and Ex network cameras, which allow images to be viewed on companies existing network and the intranet.

The group have recently added a new division, adding to the company's already extensive range of expertise. JCE ENERGY is an innovative division set up with the premise to design and manufacture

control systems for use with solar, tidal, wind and biochemical power. The division has already succeeded in delivering high quality zone 1 solar panels and associated packages to customers globally, enhancing their already growing reputation as an industry leader in the manufacture of such innovative products.

When it comes to meeting the demand of hazardous and hostile environments, the JCE Group are the experts in their field.

JCE will be present at Offshore Europe in September with a stand, showcasing their products and services. ■








ATEX Compliant Solution Providers

The JCE Group is a global organisation specialising in the design and manufacture of high performance, internationally approved control systems for applications where both hazardous and non hazardous conditions exist.

- Ex Project Solutions
- Customisation
- Assembly
- Installation

- Engineering
- Design
- Manufacture
- Consultancy

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