Innovative Radio Remote Controls Paving the Way for Safety and Productivity

IMET was founded in 1988 and is today, one of the pioneering companies in the development and manufacturing of industrial safety radio remote controls.

Today, IMET can boast a very wide and articulated range of products, capable of suiting the majority of requirements inside the industry, the construction, agricultural sectors and many more. In addition to the standards models, which have been designed for the most traditional applications, such as construction cranes, bridge cranes, etc. The company places at the disposal of its customers a staff of technicians that is specialized in the design and creation of customized models of radio remote controls, according to specific requirements.

The complete range of products include from the smallest to the biggest transmitters: RAY, WAVE2 S and L, AXT, ARES2, KRON, ZED, ZEUS2, THOR2, G4S and TITAN.

All IMET equipment is entirely designed and assembled in the Sacile plant, in Italy. It is then subjected to a series of intermediate checks and final tests, aimed at guaranteeing maximum reliability and compliance with current product and safety regulations. IMET has, in fact, its own laboratories and a fully equipped anechoic chamber with numerous test options and test instruments.

The propensity of the company towards careful planning of its resources, has allowed it to obtain the UNI ENI ISO9001 quality certification since 1998.

The remote controls designed by IMET are devices that are used where it is essential to physically separate the user from the machinery and to control the latter "remotely", without the aid of a physical connection and using radio waves as a means of transmission. In all these contexts, the IMET product reveals high-reliability, stands-out for its safety, productivity and freedom of movement.

IMET introduced recently a new radio remote control range designed and realized in accordance with ATEX and IECEx Directives for environments with potentially explosive atmospheres.

As a result of its features, the line can be safely used in areas classified as gas 1 and 2 zones, combustible dust 21 and 22 zones, and mines. Customisation is a proven bonus for IMET: each application is tailored to the customer's needs, always in keeping with the relevant legislation.

The product and the production process with Notified Quality System by Eurofins Product Testing Italy S.r.l. (NB 0477), EN ISO IEC 80079-34, respect the most recent and high-safety standards.

The new ATEX/IECEx version of KRON, ZEUS2 and THOR2 radio remote controls, models already with a consistent presence and proven functionality, allows now to operate in applications which were unthinkable before, where the operator may experiment a cutting-edge technology, together with the explosion proof rating.

The KRON model, designed for top performance with extremely small footprint, it is the ideal solution when the application

requires no more than four single-axis joysticks. Equipped with a practical clip for quick coupling to the belt, you will be surprised how easy and effortless it is to use KRON, thanks to the design of its handle, which will make any work situation comfortable.

The ZEUS2 model, is a perfect mix of reliability and versatility combined in a single control station. ZEUS2 boasts top features in terms of ergonomics and functionality. Thanks to the compact size of the panel, with a rational distribution of spaces, the transmitter can be easily customised according to specific needs. Suitable for applications requiring up to 6 single-axis or 2 dual-axis joysticks, it is a masterpiece of technology that will enable you to smoothly supervise any operations.

THOR2 is the perfect combination of efficiency, ergonomics and a high degree of customisation. A supreme mix of design and functionality that make it rank at the top of its category even for explosion-proof uses. Up to 9 single-axis joysticks or 4 dual-axis ones on the main panel, with spacious side compartments. Numerous push buttons, toggle or rotary selector potentiometers make THOR2 a perfect choice for machines of any complexity

A compact design, light-weight and simplicity of use, allow an excellent freedom of action and precision maneuvers for greater productivity, while ensuring the protection of your operators. The transmitter is powered by a specific rechargeable 3,6V battery, specially realized by IMET that can be used up to 11 hours on a single charge. The batteries can be replaced surely in hazardous environments.

The transmitters suitable for use in potentially explosive environments - such as the petrochemical, off-shore, recycling, chemical, pulverised products, mining, painting system industries - are available in different models and configurations depending on the customer's requirements and can be coupled to various receiving unit models; in standard casing if the receiver is located outside an explosion risk area or, alternatively, in an explosion-proof case as appropriate.

The radio remote controls in the ATEX version are not only perfectly suited to a variety of applications but also render processes more efficient. Compact design, low weight, easy use and great battery life, offer exceptional freedom of action, precision operations and movements as well as greater productivity, without ever losing sight your operators' safety.

There is also the explosion proof certified receiving units. They are mainly used for systems in duct pipe or with barrier cable glands, and can have applications on the walls such as control panels and signaling. They are built according to European regulations.

Today, IMET's sale network covers 40 countries around the world and can boast a very wide and articulated range of products, capable of suiting the majority of requirements inside industrial automation, forestry & agriculture applications and recycling applications, etc.

IMET will continue to be flexible and to respond to new technology challenges and customer needs with products that can go along and adapt themselves quickly. At the same time, IMET will keep its well-known customer oriented attitude, which has been the main company driver and the reason of success. •

If you would like to know more about the topics discussed in this article, or about IMET's solutions, please contact them at:

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