EX PROOF REMOTES

HETRONIC
INDUSTRIAL RADIO REMOTE CONTROLS

IF YOU'VE GOT INDUSTRIAL EQUIPMENT TO MOVE
WE'VE GOT THE REMOTE CONTROL TO MOVE IT.

Safety Radio Remote Controls for Hazardous Areas

hetronic.nl

Why Choose Hetronic?

Choosing a Safety Radio Remote Control is all about you and your work application. When you want rugged reliability, performance and efficiency Hetronic is the company that puts your needs first! We have been designing and delivering industrial radio remote controls for over 30 years, with over 400,000 high quality transmitter/receiver systems delivered around the world.

- **Every system is designed and produced to customer specification and under the ISO9001:2008-certified Quality Management System.**
- **Hetronic Radio Remote Control Human-Machine Interface (HMI) Technology**
- **Reliable: Works when you need it to work!**
- **Rugged: Field proven in thousands of harsh environment applications**
- **Productive: Designed for the operator with ergonomic controls and feedback.'**
- **Configurable and Customizable with performance enhancing controls and feedback systems.**
- **Ex/ATEX/NEC certified systems to protect the operator and equipment in hazardous work conditions.**

Every system that we develop, manufacture and deliver starts with our understanding of the customer application and equipment control needs. No matter whether the application requires a standard system, custom configured or Hazardous Environment (Ex) system Hetronic system solutions are driven by our commitment to Safety, Reliability and Productivity.

Hetronic has been active in safety radio remote controls for hazardous areas for over 30 years. Our design and production teams are highly experienced with our customer operator needs. Each and every customer inquiry is handled directly by one of our seasoned experts who are backed by industry leading technology.

Every Hetronic client benefits from a global network of service and support locations in over 50 countries. Our Hetronic owned manufacturing facilities are located in Oklahoma City, OK (USA), Mriehl Malta, Egypt and Mexico to ensure you of the fastest possible delivery.

We have a long history in Explosion-Proof Radio Remote Systems

1982 Heckle Elektronik builds the first safety radio remote control

1994 Hetronic receives PTB approval for explosion-proof radio remote controls

2003 Hetronic updates EX approvals according to the ATEX guidelines ISO 9001:2000 – Hetronic group certification

2007 Hetronic celebrates its 25th anniversary

2009 Hetronic adds the UL/CSA certification for EX safety radio remote controls

2010 Hetronic EX safety radio remote controls get approved according to IECEx standards 2011 Hetronic receives the GOST-R certification for EX safety radio remote controls

2012 Hetronic EX-cable control now available with integrated voltage supply for transmitters

2014 All Hetronic EX products newly certified to latest norms.

2015 Hetronic receives ATEX and IECEX approval for 200m cable control

PRESENT Hetronic advances HMI technology in Radio Remote Controls through integration of cable control capability, RF Proximity Sensor and Man-down Sensor solutions

ABOUT HETRONIC

NETHERLANDS

Hetronic b.v. based in Weesp (the Netherlands), is licensed assembling partner of Hetronic International in Oklahoma USA. We deliver the complete range of Hetronic Wireless Radio Remote Control systems and design and produce Hetronic customized systems to your requirements, transmitters, receivers and ATEX systems. We supply all required Hetronic spare parts for existing systems and repair and/or modify all Hetronic systems in house. Hetronic B.V. is certified by TüV Süd.

INTERNATIONAL

Worldwide Hetronic is pioneer in the field of industrial radio remote control systems and market leader in this segment. For over 3000 customers we have successfully designed and delivered over 410.000 industrial wireless radio remote control systems over the years of which many are today still in use. It is our commitment to deliver each and every customer the safest, most reliable and durable wireless radio remote control system perfectly meeting application requirements and operator needs.

ATEX

HETRONIC Radio Remote Controls are the Safety Solution for hazardous area operation. For over 30 years we have provided the safest, most reliable and rugged controls to meet operator requirements.

- **Built for safest operation in any environment**
- **Designed to latest and highest safety standards**
- **Field proven reliability**
- **Certified to Customer Category Requirements**

Hetronic hazardous area Radio Remote Control systems are designed to customer requirements for applications ranging from Cranes, Mining, Oil & Gas Exploration, Construction, Utility, water cannons, winches and a wide range of others.

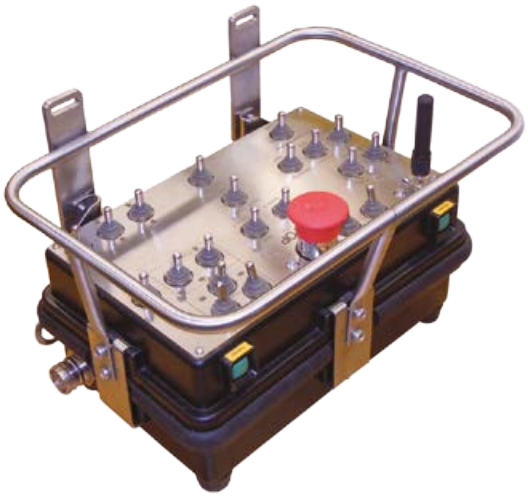
WHEN YOU WORK IN HAZARDOUS ENVIRONMENTS, YOU USE THE RADIO REMOTES THAT YOU CAN TRUST TO KEEP YOU SAFE.

NOVA-XL SERIES RADIO REMOTE CONTROLS

Field proven in harsh environments, offers a larger control panel up to 4 joysticks and other controls. Capable of feedback via LED's or viewable LCD.

NOVA-L SERIES RADIO REMOTE CONTROLS

Compact, Rugged and ergonomically designed for ultimate operator performance. Configurable with up to 2 joysticks for specific applications.



GR SERIES RADIO REMOTE CONTROLS

A workhorse transmitter for any environment, the GR offers extra space for a variety of control elements. Available with feedback on LCD display or LED's and optional cable control. Ergonomically designed for operator comfort and control with chest plate or waist belt.

GL-2 SERIES REMOTE CONTROLS

Designed for medium to heavy duty applications. Offers dual level control panel for improved performance with or without gloves. Available with cable control.

GL-3 SERIES RADIO REMOTE CONTROLS

Designed with enough space for feedback via LED's and LCD display. Heavy duty, field proven GL-3 can be optionally equipped with cable control.

ERGO-F HANDHELD RADIO REMOTE CONTROLS

The ERGO-F transmitter is a one-hand controller designed to meet the most rugged of applications. ERGO-F comes standard with a highly readable display for machine feedback and immediate button response. Hetronic key switch with RFID technology offers a wide range of options for operator safety.

RECEIVERS – ENCLOSURES

EXd Enclosures

GRP Enclosure

EQUIPMENT GROUP 01	Equipment intended for use in underground parts of mines, and to those of the surface installations of such mines, liable to be endangered by firedamp and/or combustible dust.	
	Operation Conditions	Requirements for Protection Measures
Sub-Category M1	Equipment has to remain functional, even in the event of an explosive atmosphere present.	In the event of failure of one means of protection, at least and independent second means provides the requisite level of protection, or the requisite level of protection is assured in the vent of two faults occurring independently of each other.
Sub-Category M2	Equipment is intended to be de-energized in the event of an explosive atmosphere.	The equipment in this category must provide the requisite level of protection during normal operation even under more severe operation and/or more severe operational conditions, such as those arising from rough handling and changing environmental conditions.
EQUIPMENT GROUP 02	Equipment intended for use in other places liable to be endangered by explosive atmospheres (eg. Refineries, industrial plants, silos, etc.)	

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AREAS	EQUIPMENT GROUP	EX MARKING	TYPE
ATEX	Mining	I M1 Ex ia I Ma	NOVA-L, NOVA XL, GL-2, GL-3, GR / GL-2, GL-3, GR & NOVA -XL Cable Control
ATEX	Zone 1 & 2 Gas	II 2G Ex ia IIIC T4 Gb	NOVA-L, NOVA XL, GL-2, GL-3, GR / GL-2, GL-3, GR & NOVA -XL Cable Control
ATEX	Zone 21 & 22 Dust	II 2D Ex ia IIIC T130 C Db	NOVA-L, NOVA XL, GL-2, GL-3, GR / GL-2, GL-3, GR & NOVA -XL Cable Control
IECEx	Mining	Ex ia I Ma	NOVA-L, NOVA XL, GL-2, GL-3, GR / GL-2, GL-3, GR & NOVA -XL Cable Control
IECEx	Zone 1 & 2 Gas	Ex ia IIC T4 Gb	NOVA-L, NOVA XL, GL-2, GL-3, GR / GL-2, GL-3, GR & NOVA -XL Cable Control
IECEx	Zone 21 & 22 Dust	Ex ia IIIC T130 C Db	NOVA-L, NOVA XL, GL-2, GL-3, GR / GL-2, GL-3, GR & NOVA -XL Cable Control
UL/CSA	Class I	Division 1, 2/Groups A-D/T4	NOVA-L, NOVA XL, GL-2, GL-3, GR, ERGO-F
UL/CSA	Class II, III	Division 1, 2/Groups E-G/T4	NOVA-L, NOVA XL, GL-2, GL-3, GR, ERGO-F
InMetro	Mining	Ex ia I Ma	NOVA-L, NOVA XL, GL-2, GL-3
InMetro	Zone 1 & 2 Gas	Ex ia IIC T4 Gb	NOVA-L, NOVA XL, GL-2, GL-3
InMetro	Zone 21 & 22 Dust	Ex ia IIIC T130 C Db	NOVA-L, NOVA XL, GL-2, GL-3
ATEX	Mining	I M2 Ex ia I Ma	ERGO-F
ATEX	Zone 1 & 2 Gas	II 2G Ex ib IIC T4 Gb	ERGO-F
ATEX	Zone 21 & 22 Dust	II 2D Ex ib D21 T135 C	ERGO-F
IECEx	Mining	Coming	ERGO-F
IECEx	Zone 1 & 2 Gas	Coming	ERGO-F
IECEx	Zone 21 & 22 Dust	Coming	ERGO-F
GRP AND EXD RECEIVERS			
ATEX	Zone 1 & 2 Gas	II 2G Ex db [Ex ia Ga/ib Gb] IIC T6 Gb	Exd Enclosure Sizes 4,5,6
ATEX	Zone 1 & 2 Gas	II 2G Ex db e [Ex ia Ga/ib Gb]IIC T6 Gb	Exd Enclosure Sizes 4,5,6 with Exe
ATEX	Zone 21 & 22 Dust	II 2D Ex tb [Ex ia Da/ib Db] IIIC T125 C Db	Exd Enclosure Sizes 4,5,6
IECEx	Zone 1 & 2 Gas	Ex db [Ex ia Ga/ ib Gb]IIC T6 Gb	Exd Enclosure Sizes 4,5,6
IECEx	Zone 1 & 2 Gas	Ex db e [Ex ia Ga/ ib G b] IIC T6 Gb	Exd Enclosure Sizes 4,5,6 with Exe
IECEx	Zone 21 & 22 Dust	Ex tb [Ex ia Da / ib Db] IIIC T125 C Db	Exd Enclosure Sizes 4,5,6
UL/CSA	Zone 1 & 2 Gas	Coming	Other Enclosure types are used
UL/CSA	Zone 21 & 22 Dust	Ex tb e [Ex ia Da/ ib Db]IIIC T125 C Db	Other Enclosure types are used
ATEX	Zone 2 Gas	II 3G Ex nR (ia IIC Gb) IIC T4 Gc	GRP Enclosure 255x250x120mm & 400x250x120mm
ATEX	Zone 22 Dust	II 3D Ex tc (ia IIIC Db) IIIC T125 C Dc	GRP Enclosure 255x250x120mm & 400x250x120mm

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Our vision is to create radio remote control solutions that enable our customers to achieve accident free operation in hazardous area environments. We are guided by principals of honesty, integrity and a steadfast belief that customer safety and satisfaction is our number one job!

Hetronic is committed to innovative Human-Machine Interface (HMI) technology that will fully satisfy our customers' needs for safe, reliable and affordable hazardous area radio remote controls. Our products include standard systems for off-the-shelf applications or custom configured systems that are created to meet the customer specific application needs. In every case, our systems are designed to allow the operator to be safer, more efficient and productive while providing customers a strong Return-on-Investment (ROI)

Since our founding in 1983 Hetronic has become the industry leader in safety radio remote controls with over 400,000 systems delivered to a broad range of customers. Continuous improvement of our products, lean manufacturing processes, automotive level quality management systems in combination with global technical sales and voice of the customer (VOC) research activities are the basis for providing outstanding value to our customers and shareholders alike.

Hetronic is committed to meeting and possibly exceeding the expectations of its customers. Hetronic facilities that manufacture EX products are ATEX, IECEx and NCC certified, each having regularly maintained QAN and QAR documents.

EX-APPROVALS

EUROPE (ATEX) The ATEX Directive 94/9/EC came into force on 1 July 2003, superseding national legislation in the member states of the European Union. The Directive regulates the bringing to market and commissioning of ATEX products. It must be emphasized that Directive 94/9/EC contains requirements for all parties releasing products on the market and/or operating them, whether this may be the manufacturer, their agent, the importer or any other person responsible for this. However, the directive does not govern the use of equipment within potentially explosive areas, such as for example equipment covered by Directives 1999/92/EC, 92/91/EC and 92/104/EC.

AUSTRALIA, NEW ZEELAND (IECEX) The driving force for IECEx approvals come from manufactures and users of EX-products. By providing an international certification scheme, the IECEx simplifies the international sale for manufactures of equipment intended for use in explosive atmospheres.

USA (UL CSA) Explosion-proof electrical equipment must also be tested in the USA prior to operation in potentially explosive areas. Approved testing organisations (NRTLs – Nationally Recognised Testing Laboratories), such as e.g. FM, UL, CSA, amongst others, test the equipment for compliance with the appropriate regulations and standards and compile and "Approval Report" for operation in "Hazardous Locations". In addition, FM has been issuing a "Certificate of Compliance" in recent years. This is an excerpt from the Approval Report and only contains data and information important for the operator.

CANADA (CSA UL) In Canada, the circumstances are comparable to those in the USA. The CEC (Canadian Electrical Code) applies here and testing is carried out according to CSA standards. Approved testing laboratories are CSA, UL, FM and some others. As in the USA, approval for the operation of equipment within potentially explosive areas is also required in Canada for hazardous locations. In addition, the usual Safety Approval ("CSA Approval"), certifying compliance to the electrical safety standards also applies here.

RUSSIAN FEDERATION (EAC Ex) Russia introduced a new set of standards, governing the following points: The requirements for the construction of explossion-proof electrical equipment; the classification of potentially explosive areas; the use of explosion-protected electrical equipment with different levels of protection within potentially explosive areas. The introduction of the new standards served mainly for the purpose of harmonization with the standards outlined in the IEC 60079 set of norms.

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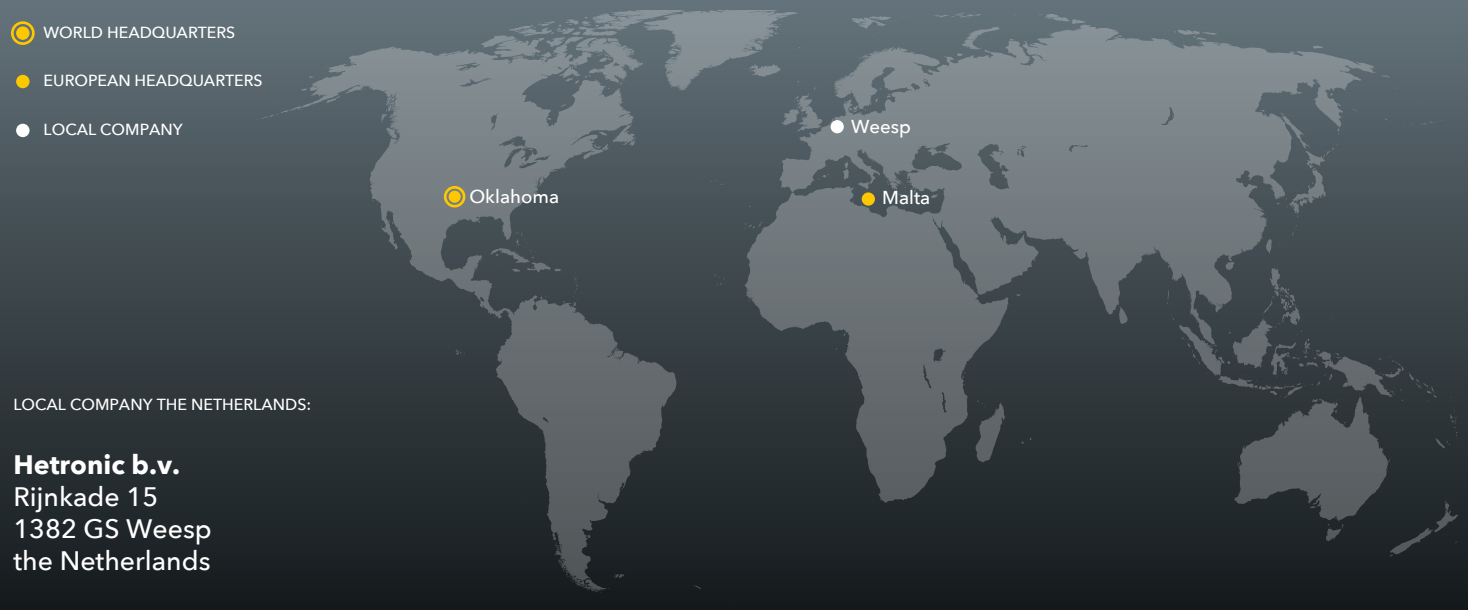

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