

Signalling and communications
Wind energy segment solutions

CROUSE-HINDS
SERIES



EATON

Powering Business Worldwide



Hazardous Area Communications

MEDC Oxalis IMCOS™ FHF Sonix™ HERNIS™

Eaton's Hazardous Area Communications (HAC) group provides, high integrity products and systems specifically designed and manufactured for harsh industrial, offshore, onshore and marine environments, and potentially explosive atmospheres.

HAC is a collection of world class European manufacturers producing a comprehensive synergistic portfolio of globally recognised product lines and system solutions for the renewables industry including:

- MEDC - audio visual signalling, call points and detection
- HERNIS™ - CCTV surveillance and security systems
- FHF – telephony, communications and signalling
- Sonix™ - Public Address & General Alarm (PAGA) systems
- Oxalis - camera surveillance and security stations
- IMCOS™ - integrated multimedia communications operating system
(PAGA, intercom, CCTV, PABX, LAN, IP DECT wireless system, VSAT, IP crew entertainment system)

Rely on Eaton's comprehensive range of innovative and integrated signalling, communication and surveillance systems, as well as service and support – from initial project specification definition through to design and service.

To ensure the highest standards of safety, where applicable our products are certified to the most stringent international standards, such as: DNV, UL, IECEx, ATEX and TR CU to meet industry standards and mandatory offshore requirements.

Engineered solutions to meet the toughest challenges

Onshore & offshore wind turbines

Eaton communications solutions

With a great many years of global experience, much of this specifically offshore in the North Sea, we have a proven track record of highly reliable engineered solutions to meet the demanding requirements of wind farms, platforms and vessels operating in such meteorological aggressive environments.

Whether it is wind turbine manufacturing, offshore sub-station telecommunications equipment, support ships or installation vessels we have a wide range of audio and visual communications solutions to meet your project needs.



In addition to surveillance, thermal cameras can be installed to monitor the thermal signature of operating systems. This offers advanced detection of potential operational problems that manifest themselves as an elevation in the heat signature of components.



Offshore sub-station platforms

Eaton communications solutions

Offshore platforms face some of the most aggressive environments and therefore require the most reliable and robust communications equipment and systems to meet the needs of such installations.

Hazardous Area Communications has over forty years' worth of history in supplying high integrity products and systems. They are designed to endure the harsh and hazardous conditions found in aggressive environments in the oil and gas industry, such as the North Sea.

Public Alarm & General Systems (PAGA)

Designed to enhance modern communication philosophies, the Sonix™ PA/GA system includes a highly sophisticated yet simplified architecture that removes the need for lengthy engineering cycles, bespoke and costly software, custom field engineering or expensive onsite support. We are able to offer fully compliant communications solutions to meet the most demanding applications for onshore, offshore and industrial installations.



Closed Circuit Television Stations (CCTV)

The HERNIST™ and Oxalis range lead the way in developing advanced camera-based surveillance systems for marine and oil & gas installations worldwide. Our solutions contribute to increased efficiency and provide safety for people and equipment in hazardous areas and under extreme conditions.



Telephones

The Gitiessie and FHF range supply a full range of automatic and sound powered telephones suitable for any kind of application: IP and analogue, weatherproof proof and explosion protected. Supplementary audio and optical devices are also available as an option.



Call points

Manual alarm call points are designed for the purpose of raising an alarm manually once verification of a fire or emergency condition exists, by operating the push button or break glass the alarm signal can be raised.



Audible alarms

The MEDC and FHF range of audible alarms are suitable for a wide array of applications, feature a variety of tone settings and are designed to raise the alarm in dangerous situations. Traditional bells are also available.



Installation & support vessels

Eaton communications solutions

Sea going installation and support marine vessels face some of the most aggressive weather conditions during the operation of transporting, installing and maintaining wind turbine farms. Such vessels demand the most resilient communications equipment and systems for use in these harsh marine environments.

Hazardous Area Communications multi media communications systems (IMCOS) is a proven robust solution providing a single platform communication operating system that meets the requirements of the most demanding operating environments.

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Engineering services

Our specialised team is highly qualified to ensure all aspects of engineering, design and configuration within your project are fulfilled - from its initial stages of concept through to its lifetime maintenance



Acoustic surveys

Stringent reports are undertaken by our professionally trained engineers to ensure optimal speaker coverage. Our reports ensure the best solution is selected from our range of products from the early design stage of the project.

Engineering

Fully trained engineers construct all of your solution's system design and engineering drawings, guaranteeing all applications comply to the relevant standards before during and after installation.

Project management

Each project is uniquely managed throughout each stage of its lifecycle from engineering, documentation, factory acceptance test and commissioning. We have the ability to provide you with the necessary support you need worldwide.

Commissioning

As part of our standard commissioning services we not only arrange factory site acceptance tests but once our solutions are installed, we ensure they are once again subjected to engineering tests to guarantee full, immediate functionality.

Training

In order to ensure the benefits of our solutions are fully utilised we can provide your team with the necessary training for any application. We want your staff to feel competent and confident that our solutions conform to your requirements.

Technical support

In the case that additional support is required after installation, our Customer Service team is available 24 hours a day for service and onsite technical support to make certain that any issue is resolved effectively and efficiently.



Project case study

Eaton's Hazardous Area Communications Group completes Seajacks Scylla wind farm installation vessel

Seajacks Scylla vessel, touted as the world's largest and most advanced wind farm installation and offshore construction vessel, has been delivered by the Samsung Heavy Industries Shipyard in Geoje, Republic of South Korea.

Eaton's Hazardous Area Communications (HAC) group supplied a range of brand solutions including the IMCOS™ Integrated Multimedia Communication System, MEDC explosion-proof loudspeakers and beacons, HERNIST™ CCTV system and FHF explosion-proof telephones demonstrating HAC's capability of providing a comprehensive range of packaged project solutions.

HAC's contribution to the project included:

- CCTV system
- Public Address & General Alarm System (PA&GA)
- Loudspeakers
- Flashing beacons
- Automatic telephone system
- Sound powered telephones
- IP DECT wireless system
- TVRO antenna
- IPTV crew entertainment system
- LAN network
- V-SAT antenna system



The systems were successfully commissioned in November 2015.

This vessel is based on the Gusto MSC NG14000X design, the ABS-classed Seajacks Scylla, has more than 8,000 metric tons of available variable deck load. Equipped with a 1,540-metric-ton leg-encircling crane and a usable deck space in excess of 5,000 square meters the unit is outfitted with 105-meter legs with the ability to install components in water depths to 65 meters. The rig is capable of meeting the installation needs of jumbo-mono-piles, jackets, and turbines of future wind farms in deeper waters farther from shore.

The Seajacks Scylla complies with ABS classification requirements for self-propelled jackup units, including the DPS-2 for dynamic positioning capability; ACCU, which applies to automatic centralized control unmanned units; and CRC for crane register certificate.

Scylla's first job in the UK will commence in 2017 for DONG Energy at the Walney Extension offshore wind farm.





Eaton

The safety you rely on.

See the complete offering at www.crouse-hinds.com/hac

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