

FHF Bergbautechnik
Mine automation and communication systems

CROUSE-HINDS
SERIES



EATON

Powering Business Worldwide

 **ATEX IECEx PG**

Part of our wider solution for hazardous environments

MEDC

PA / GA

Designed, engineered and manufactured according to individual project specifications and industry regulations. The Sonix system uses the latest in digital technology and can be integrated with a wide range of Eaton products to ensure the integrity of your assets in even the most demanding of environments.

CCTV

Cutting edge technology from our market leading brands of Hernis and Oxalis.

With the widest range of camera stations and system solutions from a single manufacturer, we have the products and experience to meet today's demanding surveillance and security needs.

With products available that are explosion protected or weatherproof, analogue or IP, fixed, dome or PTZ, our experience and proven reliability can meet your specification requirements.

Oxalis

Gitiesse

HERNIS

Sonix

Yuhua

FHF

Signalling and alarms

Our MEDC and FHF product lines offer a wide range of products specifically designed for harsh environments where there is a risk of explosion for both onshore and offshore applications. This range of products including manual activation, visual and audible alarms, and loudspeakers, can be connected to IMCOS or Sonix delivering the best combination of performance and safety.

IMCOS

The only system in the world that is approved by 7 different Type Approval authorities.

IMCOS provides the solutions you need both Onshore and Offshore. The following applications demonstrate the ability to provide a single solution.

With IMCOS and our latest developments in technology, we are able to provide a single network which provides reduced cable architecture. Our LAN systems are able to share a highway of information and resources, interlinking video, voice and data with our VoIP telephones, IPTV streaming, CCTV, PA/GA and Intercom systems through one fibre or copper backbone.

IPTV infotainment packages

IMCOS Infotainment system is a full digital, multipurpose information and entertainment system designed to provide digital content in offshore and marine applications such as supply vessels, crew accommodation and drilling platforms, where space and structural integrity are at a premium.

A key benefit from an IPTV solution is that it can operate over an existing IP network to deliver high-quality TV and video throughout a facility or vessel.

Integration with IMCOS Public Address and General Alarm and CCTV systems allows for seamless control of content delivery, muting, interrupting or steering the AV flows. Individual receivers can be addressed to provide full flexibility to the integrated IMCOS solution.

Telecommunications

Whether a traditional analogue, digital, VoIP or Hybrid telephone system is what you require, we can provide the solution you need with our IMCOS PABX system. Together with a wide range of telephones we can provide standard, weatherproof, explosion protected and IP phones.

Reference list:

Mine automation, data transmission and shaft signaling

CIS countries

End customer	Customer	Country	Year	Mine type	Project type
Alrosa, GOK Mirninsky, Internatsionalny Mine		Russia	2000	Diamond mine	Shaft signaling system with ZM5
Norilsk Nickel, Skalisty Mine, Shaft VS-10		Russia	2000	Nickel mine	Shaft signaling system with ZM51/MR90
Norilsk Nickel, Skalisty Mine, Shaft VS-10		Russia	2003	Nickel mine	Telephone system TA1 with iVT2
Alrosa, Mirny Mine	ABB Schweden	Russia	2004	Diamond mine	Shaft signaling system with ZM51/MR90
Alrosa, Mirny Mine	ABB Schweden	Russia	2004	Diamond mine	Shaft signaling system with ZM51/MR90
GOK Donskoy, Severny Mine	ABB Schweden	Kazakhstan	2004	Chrome mine	Shaft signaling system with ZM51/MR90
Alrosa, Mirny Mine	ABB Schweden	Russia	2005	Diamond mine	Shaft signaling system with ZM51
Alrosa, Mirny Mine	ABB Schweden	Russia	2005	Diamond mine	Shaft signaling system with ZM51
Norilsk Nickel, Komsomolsky Mine	Siemens Germany	Russia	2005	Nickel mine	Shaft signaling system with ZM51/MR90
Pechenganickel Mine	Siemens Germany	Russia	2005	Nickel mine	Mine radio system with MR90, L111, TA1
GOK Donskoy, Zapadny Mine	ABB Schweden	Kazakhstan	2005	Chrome mine	Shaft signaling system with ZM51/MR90
Kazakhmys corp		Kazakhstan	2005	Copper mine	Mine radio system with MR90, L111, TA1
Norilsk Nickel, Skalisty Mine	Midiel AB	Russia	2006	Nickel mine	Alarmcomputer for telephones ATAR2
Belaruskali, Krasnoslobodsky Mine	EDV -Beratung Lutz Wagner	Belarus	2006	Potash mine	Shaft signaling system with ZM51/MR90
Silvinit, Solikamsk pot-ash plant	ABB Schweden	Russia	2007	Potash mine	Mine radio system with MR90, L111, TA1
Vorkutaugol	BARTEC	Russia	2007	Coal mine	Loudspeaker/stop and Interlock with L120
Norilsk Nickel, Taimyrsky Mine	ELPRO	Russia	2007	Nickel mine	Shaft signaling system with ZM51/MR90
Norilsk Nockel, Zapolyarny Mine	Midiel AB	Russia	2008	Nickel mine	Monitoring system with ZM51/ZM20
Norilsk Nickel, Taimyrsky Mine, shaft VS-7	ELPRO	Russia	2008	Nickel mine	Shaft signaling system with ZM20/PBC01/MR90
Vorkutaugol	BARTEC	Russia	2008	Coal mine	Loudspeaker/stop and Interlock with L120
Mining and Metallurgical Company Shalkiya-Zink	Siemens Germany	Kazakhstan	2008	Zink mine	Mine radio system with MR90, L111, TA1
Uralkali	ELPRO	Russia	2008	Potash mine	Loading system with ZM20/PBC01/ZM51
Norilsk Nickel, Pechenga	Siemens Germany	Russia	2008	Nickel mine	Shaft signaling system with PBC01/ZM51/MR90
Alrosa, Aikhal Mine	ELW	Russia	2008	Diamond mine	Shaft signaling system with PBC01/ZM51/MR90
Norilsk Nickel, Zapolyarny Mine	Midiel AB	Russia	2008	Nickel mine	Telephone/louspeaker with iVT3/LV30

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Mine automation, data transmission and shaft signaling

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End customer	Customer	Country	Year	Mine type	Project type
Alrosa, Udachny Mine	Midiel AB	Russia	2009	Diamond mine	Shaft signaling system with PBC01/ZM51/MR90
Norilsk Nickel, Taimyrsky Mine	ELW	Russia	2009	Nickel mine	Shaft signaling system with PBC01/ZM51/MR90
Norilsk Nickel, Skalisty Mine, Shaft VS-10	Thyssen Schachtbau	Russia	2009	Nickel mine	Shaft signaling system with PBC01/ZM51/MR90
Belaruskali, Krasnoslobodsky Mine	EDV -Beratung Lutz Wagner	Belarus	2009	Potash mine	Shaft signaling system with PBC01/ZM51/MR90
Uralkali	Elpro	Russia	2010	Potash mine	Mine radio system with MR90/PBC01
Belaruskali, Berezovsky Mine, skip	MPSA GmbH	Belarus	2010	Potash mine	Shaft signaling system with PBC01/ZM51/MR90
Belaruskali, Berezovsky Mine, cage	MPSA GmbH	Belarus	2011	Potash mine	Shaft signaling system with PBC01/ZM51/MR90
GOK Priargunsky, uranium nining	Mideiel AB	Russia	2012	Uran mine	Shaft signaling system with ZM22/ZM51/MR90
Alrosa, Udachny Mine	Mideiel AB	Russia	212	Diamond mine	Shaft signaling system with ZM22/ZM51/MR90
Uralkali, Ust-Yaiva Mine		Russia	2012	Potash mine	Shaft signaling system with ZM22/ZM51/MR90
Norilsk Nickel, Skalisty Mine, SKS-1	ELPRO	Russia	2013	Nickel mine	Shaft signaling system with ZM22/ZM51/MR90
GOK Garlyk, potash Mine	Olko Maschinentechnik	Turkmenistan	2013	Potash mine	Shaft signaling system with PBC01/ZM51/MR90
Uralkali, Winder systems 12 pcs	ABB Schweden	Russia	2014	Potash mine	Shaft signaling system+loading+CCTV

Reference list:

Mine automation, data transmission and shaft signaling

China

End customer	Customer	Country	Year	Mine type	Project type
Tangkou Coal Mine	ABB Schweden	China	2002	Coal mine	Shaft signaling system - skip winder
Tangkou Coal Mine	ABB Schweden	China	2002	Coal mine	Shaft signaling system - skip winder
Huxi Mine	Siemens Germany	China	2003	Coal mine	Shaft signaling system
Tunliu Coal Mine	ABB Schweden	China	2003	Coal mine	Shaft signaling system - double cage
Tunliu Coal Mine	ABB Schweden	China	2003	Coal mine	Shaft signaling system - double cage
Boadian Coal Mine	Siemens Germany	China	2003	Coal mine	Shaft signaling system
Tunliu Coal Mine	Siemens Germany	China	2004	Coal mine	Shaft signaling system - skip winder
Longgu Coal Mine	ABB Schweden	China	2005	Coal mine	Shaft signaling system - skip winder
Longgu Coal Mine	ABB Schweden	China	2005	Coal mine	Shaft signaling system - double cage
Datong Mine	Honeywell Ltd.	China	2006	Coal mine	Data transmission/gas monitoring system
Gaohe Coal Mine	ABB Schweden	China	2006	Coal mine	Shaft signaling system - skip winder
Gaohe Coal Mine	ABB Schweden	China	2006	Coal mine	Shaft signaling system - single cage
Datong Mine	New Spirit Enterprise	China	2008	Coal mine	Data transmission/gas monitoring system
Huainan Coal Mining Group	Hese Maschienenfabrik	China	2008	Coal mine	Retractable guiding rails
Licun Coal Mine	Siemens China	China	2009	Coal mine	Shaft signaling system - skip winder
Huainan Coal Mining Group	Hese Maschienenfabrik	China	2010	Coal mine	Retractable guiding rails
Datong Mine	Beijing Forward Gate Automation	China	2010	Coal mine	Data transmission/gas monitoring system
Siemag Tecberg	Siemag Tecberg Germany	China	2011	Coal mine	Mobile emergency hoist
Licun Coal Mine	Siemens China	China	2012	Coal mine	Shaft signaling system - single cage
Datong Mine	Beijing Forward Gate Automation	China	2010	Coal mine	Data transmission/gas monitoring system

Reference list:

Mine automation, data transmission and shaft signaling

Germany

End customer	Customer	Country	Year	Mine type	Project type
Friedrich Heinrich Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2001	Coal mine	Wagon loading system
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2001	Coal mine	Shaft signaling system, mine radio
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2001	Coal mine	Wagon loading system
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2001	Coal mine	Mine radio system
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2001	Coal mine	Retractable guiding rails
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2001	Coal mine	Wagon loading system
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Mine radio system
ESCO - European Salt Company Borth Mine	ESCO - European Salt Company	Germany	2002	Coal mine	Mine radio system
Walsum Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Shaft signaling system, mine radio
Friedrich Heinrich Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Shaft signaling system, mine radio
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Wagon loading system
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Control system for railroad switch
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Mine radio system
Heinrich Robert Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Control system for shaft doors
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Wagon loading system
Lerche Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2002	Coal mine	Shaft signaling system, mine radio
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Wagon loading system
Friedrich Heinrich Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Gas monitoring system
Heinrich Robert Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Wagon loading system
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Gas monitoring system

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Mine automation, data transmission and shaft signaling

Germany

End customer	Customer	Country	Year	Mine type	Project type
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Wagon loading system
Walsum Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Shaft telephone system
Lohberg Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Mine radio system
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Shaft signaling system, mine radio
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2003	Coal mine	Gas monitoring system
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2004	Coal mine	Wagon loading system
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2004	Coal mine	Automation for wagon tippler
Ibbenbüren Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2004	Coal mine	Mine radio system
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2004	Coal mine	Wagon loading system
Grimberg Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2004	Coal mine	Mine radio system
Voerde Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2004	Coal mine	Mine radio system
GSES- Glückauf Sondershausen	GSES- Glückauf Sondershausen	Germany	2004	Coal mine	Mine radio system
Westerholt Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2004	Coal mine	Wagon loading system
Carolienglück Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2005	Coal mine	Shaft signaling system, mine radio
Ibbenbüren Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2005	Coal mine	Shaft signaling system, mine radio
Heinrich Robert Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2005	Coal mine	Mine radio system
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2005	Coal mine	Wagon loading system
Ensdorf Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Shaft signaling system, mine radio
Robert Müser Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Shaft signaling system, mine radio
Zollverein Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Mine radio system

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Mine automation, data transmission and shaft signaling

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End customer	Customer	Country	Year	Mine type	Project type
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Retractable guiding rails
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Shaft signaling system, mine radio
Auguste Victoria Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Automation for main water pumping station
Zollverein Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Mine radio system
Grimberg Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2006	Coal mine	Shaft signaling system
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2007	Coal mine	Wagon loading system
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2007	Coal mine	Retractable guiding rails
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2007	Coal mine	Shaft signaling system
Unterbreizbach Mine	K+S - Kali und Salz	Germany	2007	Coal mine	Mine radio system
Friedrich Heinrich Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2007	Coal mine	Automation for main water pumping station
Fürst Leopold Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2007	Coal mine	Shaft signaling system, mine radio
Konrad Mine	DHSS	Germany	2007	Coal mine	Shaft signaling system, mine radio
Friedrich Heinrich Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2007	Coal mine	Mine radio system
Fürst Leopold Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2007	Coal mine	Control system for shaft doors
Heinrich Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2008	Coal mine	Shaft signaling system, mine radio
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2008	Coal mine	Wagon loading system
Walsum Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2008	Coal mine	Mine radio system
Concordia Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2009	Coal mine	Shaft signaling system, mine radio
Konrad Mine	DHSS	Germany	2009	Coal mine	Shaft signaling system, mine radio
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2010	Coal mine	Wagon loading system

Reference List:

Mine automation, data transmission and shaft signaling

Germany

End customer	Customer	Country	Year	Mine type	Project type
Borth Mine	K+S - Kali und Salz	Germany	2010	Potash Mine	Mine Radio System
Amalie Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2010	Coal Mine	Mine Radio System
Rober Müser Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2010	Coal Mine	Mine Radio System
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2010	Coal Mine	Shaft signaling system, Mine Radio
Bartensleben Mine	DBE	Germany	2010	Potash Mine	Shaft signaling system, Mine Radio
Prosper Haniel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2010	Coal Mine	Wagon Loading System
Reden Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2010	Coal Mine	Mine Radio System
Hansa Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2010	Coal Mine	Mine Radio System
Carolienenglück Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2011	Coal Mine	Mine Radio System
Neuhoff Ellers	K+S - Kali und Salz	Germany	2011	Potash Mine	Mine Radio System
Untereibzbach Mine	K+S - Kali und Salz	Germany	2011	Potash Mine	Mine Radio System
Amalie Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2011	Coal Mine	Shaft signaling system
Hattdorf Mine	K+S - Kali und Salz	Germany	2012	Potash Mine	Mine Radio System
Borth Mine	ESCO - European Salt Company	Germany	2012	Potash Mine	Mine Radio System
Gorleben	DBE	Germany	2012	Potash Mine	Alarmtelephone system
Ibbenbüren Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2013	Coal Mine	Wagon Loading System
Bernburg Mine	ESCO - European Salt Company	Germany	2013	Potash Mine	Mine Radio System
Fürstenhall Mine	K+S - Kali und Salz	Germany	2013	Potash Mine	Mine Radio System
Duhamel Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2014	Coal Mine	Shaft signaling system
Borth Mine	ESCO - European Salt Company	Germany	2014	Potash Mine	Mine Radio System
Sondershausen	GSES- Glückauf Sondershausen	Germany	2014	Potash Mine	Mine Radio System
Carolienenglück Mine	RAG- Ruhrkohle Aktien Gesellschaft, Germany	Germany	2015	Coal Mine	Mine Radio System

Reference list:

Mine automation, data transmission and shaft signaling Turkey

End customer	Customer	Country	Year	Mine type	Project type
Amasra Mine	ABB Schweden	Turkey	2012	Coal mine	Shaft signaling system, mine radio
Kouzlu Mine	Tevel Varnost	Turkey	2012	Coal mine	Gas monitoring system
Kure Mine	Siemag Tecberg Germany	Turkey	2013	Coal mine	Mine radio system

Reference list:

Mine automation, data transmission and shaft signaling UK

End customer	Customer	Country	Year	Mine type	Project type
Hattfield Colliery	Powerfuel Mining	UK	2008	Coal mine	Mine radio system
Daw Mill Mine	UK Coal Mining	UK	2008	Coal mine	Mine radio system
Kellingley Mine	UK Coal Mining	UK	2008	Coal mine	Mine radio system
Boulby Mine	Cleveland Potash Ltd.	UK	2008	Potash mine	Mine radio system
National Coal Mining Museum	National Coal Mining Museum	UK	2008	Coal mine	Shaft signaling system, mine radio
Maltby Mine	Maltby Colliery Ltd.	UK	2009	Coal mine	Mine radio system
Boulby Mine	Cleveland Potash Ltd.	UK	2011	Potash mine	Mine radio system
Boulby Mine	Cleveland Potash Ltd.	UK	2011	Potash mine	Alarmtelephone system



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