



Real pioneers don't know where to stop:
**Hirschmann explosion protection
 technology for hazardous locations.**

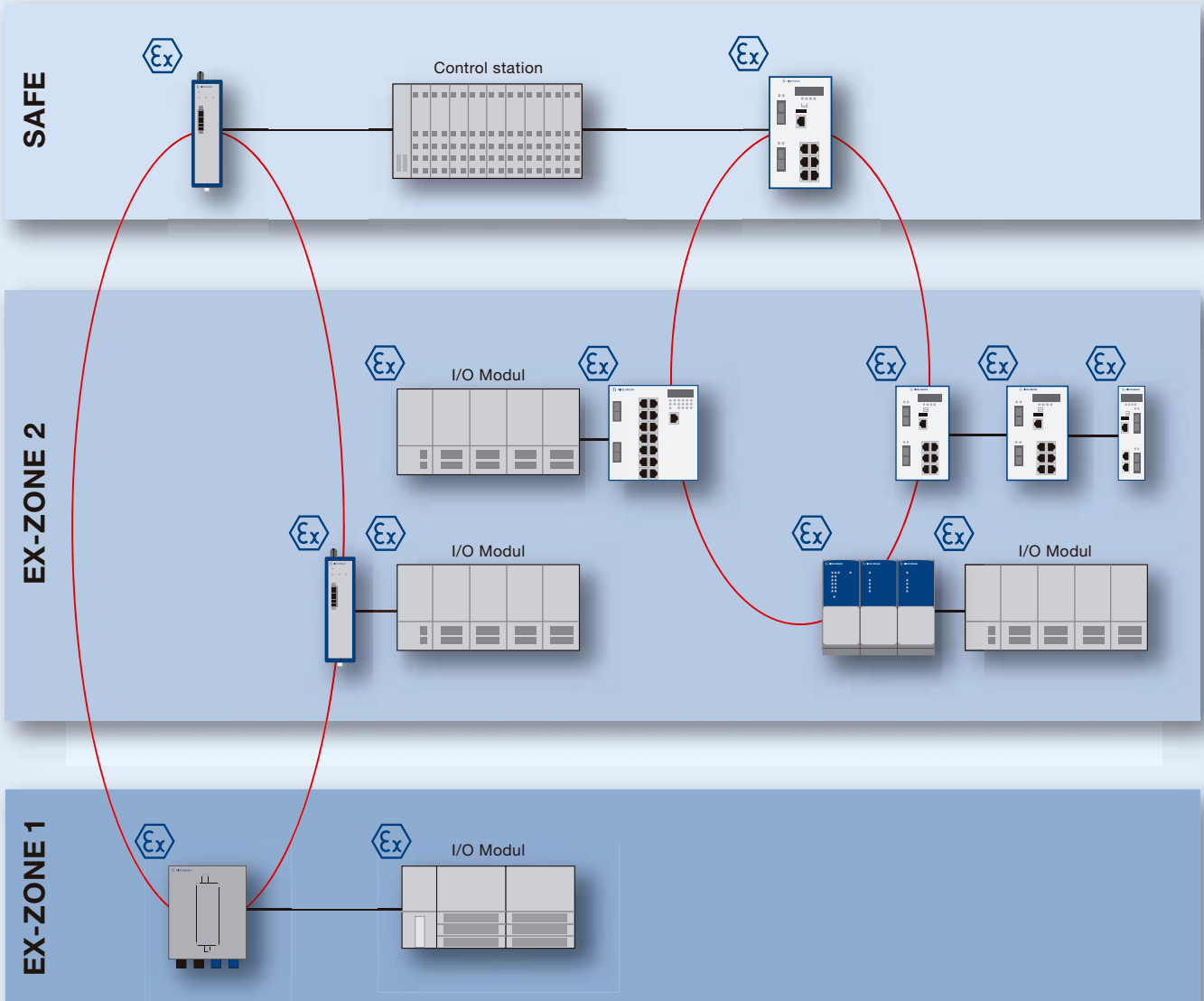
- ATEX and UL approvals
- ATEX Zone 2 for fieldbus and ETHERNET
- ATEX Zone 1 for Profibus



HIRSCHMANN

A Belden Company

3, 2, 1 Hirschmann: High-speed networks are the solution of choice for ATEX Zones 2 and 1.



Applications

Systems that operate in hazardous locations have to meet very stringent requirements, and the data links between control stations and process equipment are no exception. Solutions for refineries, offshore drilling platforms and large plants in the chemical and

petrochemical industry have to be suitable for use in ATEX Zone 1. Hirschmann's broad range of ATEX approved fieldbus and ETHERNET components give you just what you need to deploy safe, high-speed data communications.

Don't get left behind: Hirschmann technology for ATEX Zones 2 and 1.

Variable switch design

- Modularity ensures optimal functionality



Perfected data control technology

- Leading-edge switch management technology

Top-speed Profibus

- 12 MBd in Zone 1



Excellent operational reliability

- Fiber optics guarantee immunity from interference
- 0 ms ring redundancy

Preventive maintenance

- Measurement output
- Fault relay

Requirements and solutions

State-of-the-art automation is the key to greater cost efficiency. Rapid advances in technology create new opportunities in the process industry with its potentially explosive atmospheres: vertical integration and web technology enable companies to exploit additional

cost-reduction potential. Leading-edge technology from Hirschmann opens the door to transparent networks. Let us work with you to develop tomorrow's solutions.




Very impressive safety and variety: The Hirschmann ATEX family.



FIELDBUS communications protocol

	Product family	Profibus fiber repeater
	Description	OZD Profi
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given Europe ATEX Zone 2 ✓ Approval given Europe ATEX Zone 1 ✓ Approval given
	Product family	Universal fiber optic repeater
	Description	OZD 485
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given Europe ATEX Zone 2 ✓ Approval given
	Product family	Genius bus fiber repeater
	Description	OZD Genius
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given
	Product family	Bus fiber repeater modbus
	Description	OZD Modbus Plus
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given

ETHERNET communications protocol

	Product family	Modular ETHERNET Switches
	Description	MS 20/MS 30
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given Europe ATEX Zone 2 ✓ Approval given
	Product family	Compact ETHERNET Switches
	Description	RS 2/RS 20/RS 30/RS 40
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given Europe ATEX Zone 2 ✓ Approval given
	Product family	ETHERNET media converter
	Description	RT
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given Europe ATEX Zone 2 ✓ Approval given
	Product family	ETHERNET hubs
	Description	RH
	Approvals	U.S.A. Class 1 Div.2 ✓ Approval given

More than 80 Hirschmann products are currently approved for use in hazardous locations.



Product features

You need high-performance data links to connect state-of-the-art control stations with field devices, and some of these systems have to operate in potentially explosive atmospheres. More than 80 approved products, which deliver the quality you would expect from Hirschmann, reflect the engineering know-how of the pioneer in Industrial ETHERNET:

- ETHERNET in Zone 2
- Fieldbus connections in Zones 2 and 1
- Modular design to ensure maximum flexibility
- Compact devices in every performance category
- Hirschmann quality and reliability

Hirschmann Competence Center

The Hirschmann Competence Center has the answers you need when you are looking for quality, reliability, safety and cost-effective total solutions. As a customer and development partner, you get professional consulting, service and support from

the pioneer in industrial networking technology. Contact us to discuss your individual future requirements.

www.hicomcenter.com



HIRSCHMANN

A Belden Company

Hirschmann. Simply a good Connection.



- Production bases
- Sales subsidiaries
- Selected distribution partners

Hirschmann Automation and Control GmbH

Industrial ETHERNET

FiberINTERFACES

Industrial Connectors

Electronic Control Systems

WWW.HIRSCHMANN.COM

"The information/details in this publication merely contain general descriptions or performance factors which, when applied in an actual situation, do not always correspond with the described form, and may be amended by way of the further development of products. The desired performance factors shall only be deemed binding if these are expressly agreed on conclusion of the contract.

Please note that some characteristics of the recommended accessory parts may differ from the appropriate product. This might limit the possible operating conditions for the entire system."