HMI Systems

explore the future

STAHL

A vision
becomes reality.

Integrated approach.
Concerted action.

Consistent operating and monitoring systems are gaining increasing importance in all areas of industry. R. STAHL HMI Systems GmbH in Cologne is the only manufacturer of terminals and visualization systems covering the entire range of devices both for industrial areas and explosion-protected locations.

The devices for hazardous locations are called „Exicom", the devices for industrial locations and zone 2 are called ProVicom.

Due to their extensive functionality the devices provide optimum visualization options. Their active communication concept in combination with the integrated functions means a major reduction in work for the automation system.

Eliminating risks.
Guaranteeing safety.

Be it on an oil rig or in a grain elevator, in the chemical or pharmaceutical industries – wherever safety is a major issue you will find us a reliable partner. As one of the leading manufacturers worldwide of explosion-protected applications for measuring, control and visualization we support our customers in their need to ensure consistently smooth processes, also in hazardous areas.

In this, you can benefit from complete solutions that include not only our single components, but also fully assembled field stations with HMI and integrated card readers. We also provide tools for an easy migration to various IT systems, such as ERP or MES. You can always rely on the fact that our products comply with the strictest safety requirements, are certified according to international standards and can therefore be used worldwide.
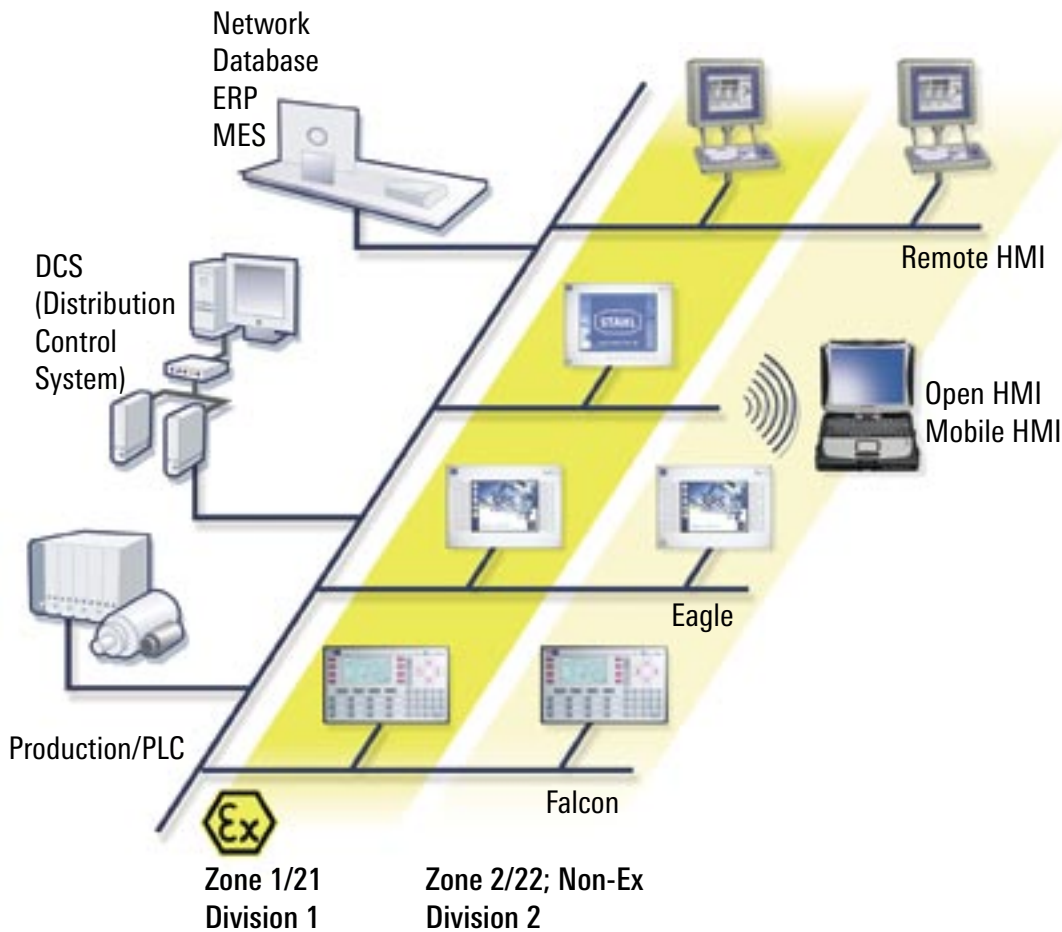
Complete solutions

In all areas of industry there is an increasing demand for integrated operating and monitoring systems.
After all, cost-effective and user-friendly solutions can only be realized if all interfaces are perfectly aligned to one another.
R. STAHL HMI Systems puts the expertise required at your disposal. Our HMI systems can be used universally, have a high level of user-friendliness and offer a wide variety of automation options. All operating and visualization systems can easily be connected to Office applications as well as ERP systems.

Network
Database
ERP
MES

DCS
(Distribution
Control
System)

Remote HMI

Open HMI
Mobile HMI

Eagle

Production/PLC

Falcon

Zone 1/21
Division 1

Zone 2/22; Non-Ex
Division 2

Remote HMI- virtually on the spot

Remote HMI, our range of PC terminals, enables you to interface directly from the field into the control room. With a maximum of four units to one application, this range offers sophisticated visualization available at different levels of resolution. Distances of up to 500 metres are possible. Automatic monitor adjustment and the use of a standard CAT7 cable make this unit perfectly suitable for installation in hazardous locations. Attractively priced package deals are available, including stainless steel housing with coupling and stand, keyboard, cable and transmission box.

Highlights:

- Modern PC operating and display system for installation in hazardous areas of zones 1, 2 and 22
- Simple and cost-effective installation due to use of standard VGA, keyboard and mouse interfaces
- Intrinsically safe high-speed data transfer across a distance of up to 500 metres via a simple twisted pair cable
- Designed for installation in industrial environments with ambient temperatures ranging from -10°C to +60°C
- Option to integrate card reader systems (Barcode, Mifare)

Exicom

Type:	ET-515i	ET-518i
Display:	XGA, 15" TFT, 1024 x 768	SXGA, 18" TFT, 1280 x 1024
Explosion Protection	ATEX Zone 1, 22 NEC Class 1, Div. 2	ATEX Zone 1, 22 NEC Class 1, Div. 2

Type:	ET-515	ET-518
Display:	XGA, 15" TFT, 1024 x 768	SXGA, 18" TFT, 1280 x 1024

Mobile HMI- maximum flexibility

This MOBILE HMI can be used as a laptop or as a Tablet PC and is specially designed for use in rough environments. Unique in its field, the toughbook is ATEX certified for use in Zone 2 (T3). With a weight of only 2.1 kg, it is ideal for use in maintenance, commissioning and process control.

Highlights:

- Tablet PC and Notebook functionality
- ATEX Zone 2 (T3)
- Robust magnesium alloy housing
- Vibration- and shock-proof (MIL-STD 810F)
- Water- and dust-proof (IP54, MIL-STD 810F)
- Easily portable due to a lightweight 2.1 kg
- 10.4" touchscreen LCD easily legible even in broad daylight
- Extremely long-life rechargeable battery (up to 8 hours)
- WLAN 802.11 b/g

Provicom

Type:	**MT-906-Toughbook CF 18**
Display:	10. 4" TFT, XGA (1024 x 768) TOUCH SCREEN with Pointer
General protection:	Water and dust ingress protection (IP54, MIL-STD 810F)
Processor:	INTEL Pentium M 1.1 GHz
Operating system:	Windows XP
LAN / WLAN:	100 Base-TX / Intel Pro Wireless 2200 BG, IEEE 802.11 b/g
Modem:	56Kbps, V. 92 compatible
Housing:	Robust metal housing
Memory:	40 GB Hard disc, built for rough enviroments

Power:	Battery:	Lithium-Ion
	Battery life time:	8 hours
	Battery loading time:	3-7 hours

Weight:	2,1 kg
Dimensons (mm):	271 x 49 x 216 (WxHxD)
Explosion protection:	ATEX, Zone 2 (T3) II 3 G EEx nA [nL] IIC T3

WirelessLAN

Microsoft® **Windows**® **Powered** ™

OPEN HMI - perfect for your system

With an OPEN HMI, you are able to run your own or third-party software. Furthermore, it is designed for use as a thin client device in a remote terminal environment. As a standard, all OPEN HMI are equipped with a touch screen, several interfaces and are based on powerful Pentium/Celeron M technology up to 1,1 GHz, which makes them the most powerful unit available on the market. Their modular construction allows for modification and simple customer
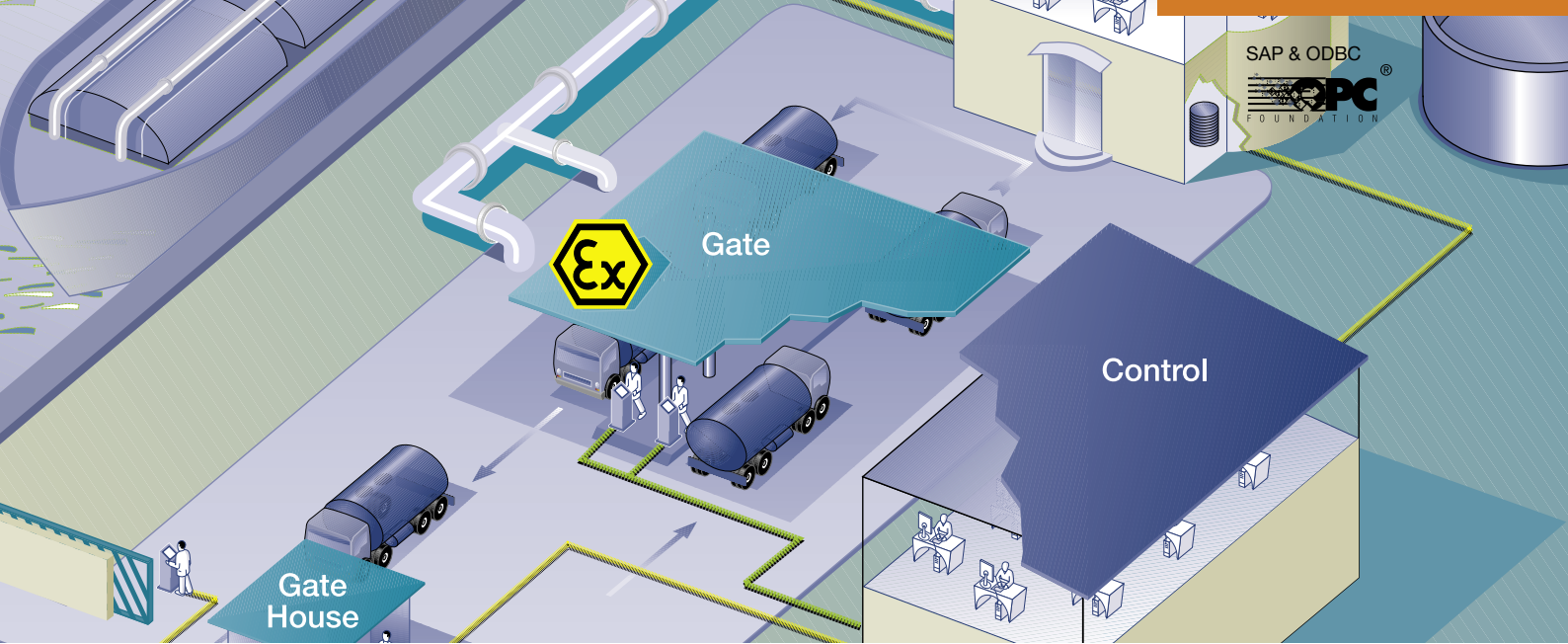
Highlights:

- Universal operating and monitoring device for installation in hazardous locations of zones 1, 2, 21 and 22
- Windows XP embedded operating system
- Multilingual installation with support of 25 different languages and fonts and fonts such as German, English, French, Chinese, Japanese, Cyrillic and others
- Touch screens with soft keyboards for 150 language layouts
- Designed for industrial environments with an ambient temperature of up to 50°C
- Option to integrate card reader systems (Barcode, RFID, Wiegand)
- Fast backup and recovery function via USB
- Several communication interfaces such as WLAN*, Ethernet, Bluetooth*, serial, USB and Profibus* (* via USB)

Exicom

Type:	ET-406	ET-416	ET-436
Display:	10.4" TFT, SVGA (800 x 600) TOUCH SCREEN	10.4" TFT, SVGA (800 x 600) TOUCH SCREEN	15" TFT, XGA (1024 x 768) TOUCH SCREEN
Processor:	Pentium/Celeron M	Pentium/Celeron M	Pentium/Celeron M
USB:	Yes, 4	Yes, 4	Yes, 4
Ethernet:	Yes, 100baseFX (fiber optic)	Yes, 100baseFX (fiber optic)	Yes, 100baseFX (fiber optic)
Memory:	Flash disc, for rough enviroments	Flash disc, for rough enviroments	Flash disc, for rough enviroments
Temperature range:	-10°C … +50°C	-10°C … +50°C	-10°C … +50°C
Explosion protection:	ATEX Zone 1, 21 (pending)	ATEX Zone 1, 21 (pending)	ATEX Zone 1, 21 (pending)

Microsoft® Windows® Powered

Gate

Control

Gate
House

Software and more

SPSPlusWIN:
Powerful Engineering tool
for Operator Interfaces

- Engineering tool for all operator interfaces
- Explorer-based tool with import / export for library, variables and format control
- Upload and download, also via Ethernet-FTP, of projects into local Operator Interfaces
- Password and level (maximum 9) control
- Demo version available on the Internet: www.stahl-hmi.com

OPCom FDA Server,
designed for FDA 21 CFR Part 11
for Operator Interfaces

- Electronic signature, Audit trail, Login + Username, Password management
- Version control. Accessibility to major DCS Vendor and Databases; SQL, and more

OPCom OPC Server,
powerful integration tool
for Operator Interfaces

- OPC server for data exchange tool with 'open' systems in network configuration
- SPSPlusWIN integration into OPC server
- Accessible for third party OPC clients

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FALCON- fire and ice

The FALCON series comprises text and graphic operating and monitoring devices for on-the-spot viewing of text and alarm messages. It is capable of communicating with all major PLC/DCS or PC systems and can display variables in several formats as well as text and bar charts in a maximum of three font sizes. The FALCON series can be used as a multi-lingual operating and handling device. The devices have a second interface for access control or barcode readers. Project engineering is done by means of the powerful SPSPlusWIN tool (text or full version).

Highlights:

- Cost-effective systems for smaller and medium-sized operating tasks
- Many functions for optimum display and operation of processes
- Integrated alarm message functions
- Connectivity to all major automation systems and PC networks
- Option to integrate card reader systems (Barcode, RFID, Wiegand)
- Extended temperature ranges for outdoor installation
- Support of various international fonts

Exicom

Type:	ET-65	ET-75	ET-125
Display / size:	LCD, 134 mm x 41 mm	LCD, 114 mm x 64 mm	LCD, 114 mm x 64 mm
Lines / Character:	Max. 8 x 40	Max. 11 x 40	Max. 11 x 40
Temperature range:	-20°C … +70°C	-20°C … +70°C	-20°C … +70°C
Explosion protection:	ATEX Zone 1, 21 NEC Class 1, Division 1, GOST-R	ATEX Zone 1, 21 NEC Class 1, Division 1, GOST-R	ATEX Zone 1, 21 NEC Class 1, Division 1, GOST-R

ProVicom

Type:	MT-65	MT-125
Display / size:	LCD, 134 mm x 41 mm	LCD, 124 mm x 71 mm
Lines / Character:	Max. 8 x 40	Max. 11 x 40
Temperature range:	-20°C … +70°C	-10°C … +60°C
Explosion protection:	ATEX Zone 2, 22	ATEX Zone 2, 22

EAGLE- get connected

Ranging from universal application to simple process visualization with high performance, the Eagle series Operator Interfaces are also suitable for more complex applications. They are capable of communicating with all major PLC/DCS or PC systems, and can display variables in several formats as well as text, object lists and bar charts in all standard Windows fonts. The EAGLE series can be used as a multi-lingual operating and handling device. The devices have additional interfaces for the connection of access control devices, barcode readers or a second PLC/DCS PC system. Project engineering is done by means of the powerful SPSPlusWIN tool. The EAGLE series is specially designed by us for dedicated systems.

Highlights:

- Universal operator interfaces with extensive functionality up to simple process visualization
- Many functions for the optimum display and running of processes
- Integrated fault message functions
- Connectivity to all major automation systems and PC networks
- Option to integrate card reader systems (Barcode, RFID, Wiegand)
- Parallel connection to various automation systems
- Support of international fonts such as Chinese, Japanese, Cyrillic and others
- Extended temperature range

Exicom

Type:	ET-306	ET-316	ET-336
Display:	10,4" TFT, VGA (640x480) TOUCHSCREEN	10,4" TFT, SVGA (800x600) TOUCHSCREEN	15 " TFT, XVGA (1024x768) TOUCHSCREEN
Processor:	Geode	Geode	Geode
Serial:	RS-232, RS-485	RS-232, RS-485	RS-232, RS-485
Ethernet:	Yes, 100baseFX (fiber optic)	Yes, 100baseFX (fiber optic)	Yes, 100baseFX (fiber optic)
Memory:	Flash disc, for rough enviroments	Flash disc, for rough enviroments	Flash disc, for rough enviroments
Temperature range:	-10°C … +55°C	-10°C … +55°C	-10°C … +55°C
Explosion protection:	ATEX Zone 1, 21 (pending)	ATEX Zone 1, 21 (pending)	ATEX Zone 1, 21 (pending)

ProVicom

Type:	MT-316	MT-336
Display:	10,4" TFT, VGA (640x480) TOUCHSCREEN	15" TFT, XVGA (1024x768) TOUCHSCREEN
Processor:	STPC	Pentium III
Serial:	RS-232, RS-485	RS-232, RS-485
Ethernet:	Yes, RJ45 100BaseT	Yes, RJ45 100BaseT
Memory:	Flash disc, for rough enviroments	Flash disc, for rough enviroments
Explosion protection:	ATEX Zone 2 (pending)	ATEX Zone 2 (pending)

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