



THE STRONGEST LINK.

**STAHL**

# HMIS IN THE PROCESS INDUSTRIES

For Hazardous & Industrial Areas

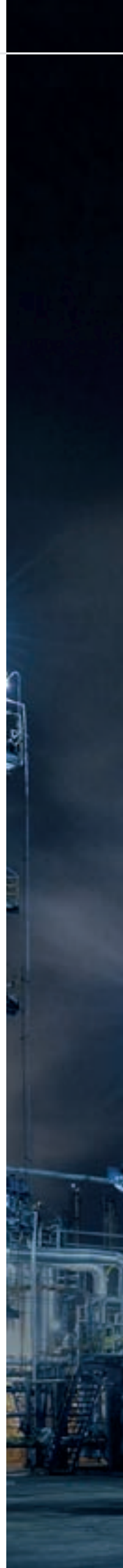
# R. STAHL HMI – THE EXPLOSION PROTECTION EXPERT

R. STAHL HMI products have been designed for worldwide use in hazardous and industrial areas. They are built in compliance with global standards and fully comply with all of the requirements for clean room areas and harsh environments.

We offer a full range of display sizes and technologies, from 7" to 24" widescreen displays; from KVM Systems, Thin Clients, Panel PCs, Operator Panels, smartphones, tablet computers to peripheral equipment.

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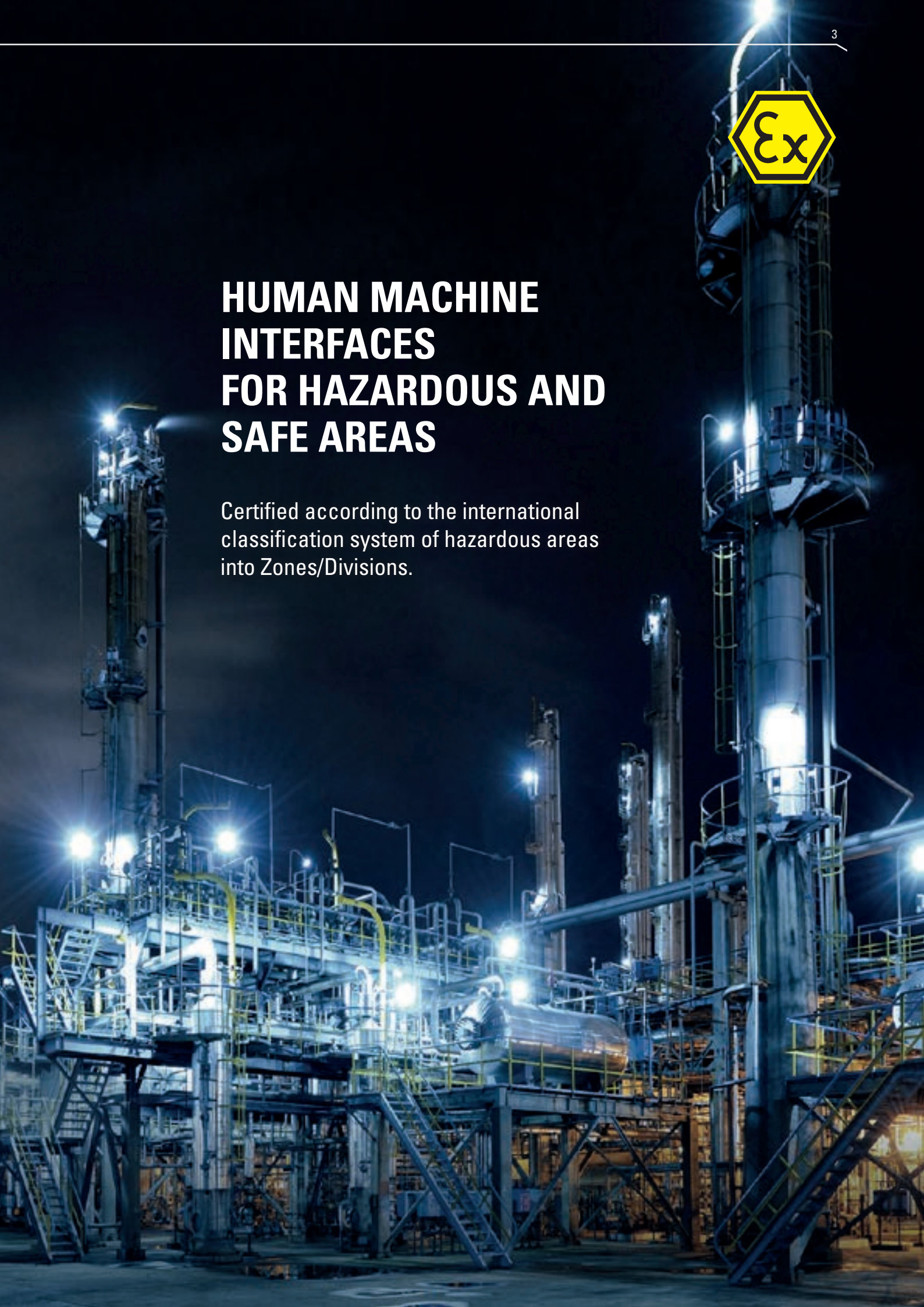






# HUMAN MACHINE INTERFACES FOR HAZARDOUS AND SAFE AREAS

Certified according to the international  
classification system of hazardous areas  
into Zones/Divisions.

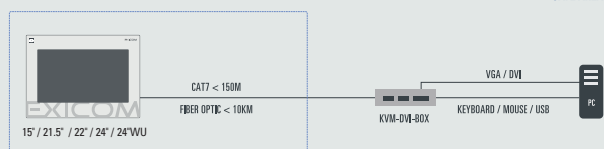


# TECHNOLOGIES

## KVM SYSTEMS

### KVM SYSTEMS SERIES 600

Hazardous locations & safe areas

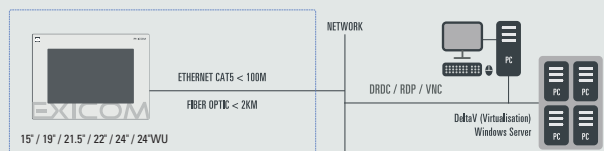


- Easy extension of monitor, keyboard and mouse from PC in safe areas to industrial and hazardous locations
- Fully digital data transmission
- Future-proof because of upgradeability for future hardware platforms

## THIN CLIENT SYSTEMS

### THIN CLIENTS SERIES 500

Hazardous locations & safe areas

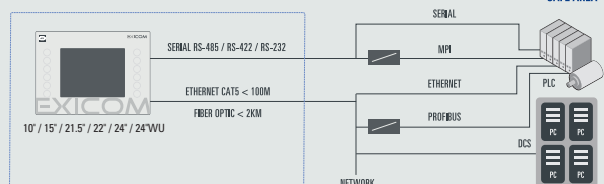


- Flexible access from HMI to PCs or virtual PCs
- Centralized data management and security management
- New Remote HMI Firmware V5 for enhanced data security
- Driverless plug-and-play on host systems

## PANEL PC SYSTEMS

### PANEL PCS SERIES 400

Hazardous locations & safe areas



- Robust industrial grade PCs as complete unit of computer and integrated monitor
- Modern Dual and Quad Core processors up to Core i7
- Modular front panel mount units or operator stations

## OPERATOR INTERFACES

### OPERATOR INTERFACES SERIES 300 / 200

Hazardous locations & safe areas



- Robust industrial grade Operator Interfaces as complete unit of computer, monitor and visualization software on Windows® Embedded Compact 7
- Cost-effective, pre-installed SPSPlus or Movicron® CE Runtime
- Modular front panel mount units or operator stations



Our range of KVM systems and Thin Clients are first choice for all major process control systems. They easily and securely connect to the system in compliance with international standards. Both SERIES are also compliant with FDA requirements for cGMP, GMP, and GAMP.

Our high performance Panel PCs can either be used as stand-alone solutions with full-screen visualization, or in a client-server architecture.

R. STAHL Operator Interfaces have been designed to provide a plug-and-play solution with integrated software.

They can be used in a wide range of different applications, e.g. for the visualization and control of machines in the process industries or logistics processes.



# KVM SYSTEMS

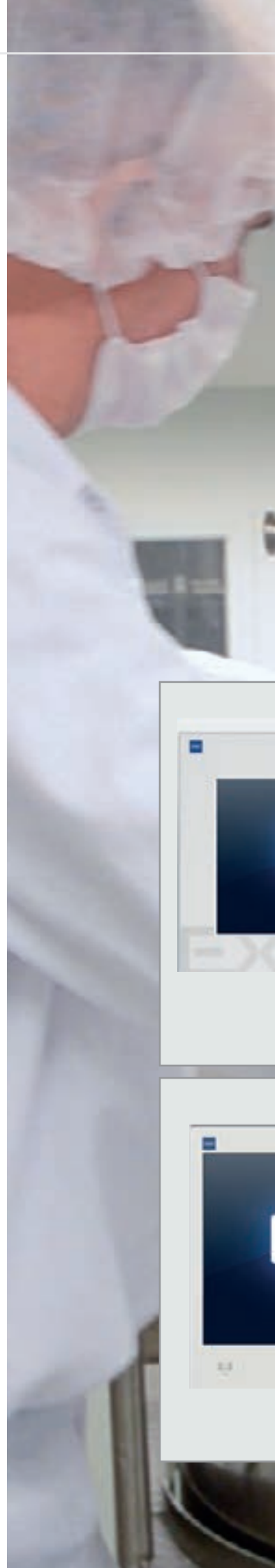
## SERIES 600

A KVM system is a point-to-point connection between, and extension of a workstation's keyboard, video and mouse connectors going from the safe area to the hazardous area.

The KVM systems of the MANTA device platform have been designed for applications in the pharmaceutical industry, in

life science engineering, or in the fine chemical industry.

The SHARK devices are designed for applications in harsh environments and the oil and gas industries. The KVM DVI3 transmission unit supports all types of process control systems.



## HIGHLIGHTS

- Full digital video extension (fibre optic up to 10 km (6.2 mi) , CAT7 up to 150 m (492 ft))
- Updateable for future hardware solutions
- Simple and safe connection via DVI or VGA, and USB (Plug and Play)

### KVM MANTA

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP, CGMP  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION  
ISA 71.4 G3

#### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

EXPLOSION PROTECTION CERTIFICATES  
ZONE 1 / 2 / 21 / 22: ATEX, IECEx, TR EAC, KGS KCC  
CLASS I ZONE 1: CEC, NEC  
CLASS I DIV II: CEC, NEC

#### PERMANENT OPERATION (MAX.)

PANEL MOUNT  
-30 °C ... +60 °C  
(-22 °F ... +140 °F)

OPER. STATION  
-30 °C ... +55 °C  
(-22 °F ... +131 °F)

#### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

### KVM SHARK

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP, CGMP  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION  
ISA 71.4 G3

#### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

#### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 21: ATEX, IECEx, TR EAC  
ZONE 2 / 22: ATEX, IECEx, TR EAC

#### PERMANENT OPERATION (MAX.)

PANEL MOUNT

OPER. STATION  
-40 °C ... +65 °C  
(-40 °F ... +149 °F)

#### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

# THIN CLIENTS

## SERIES 500

### THIN CLIENT MANTA

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION  
ISA 71.4 G3

#### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

#### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEX, TR EAC, KGS KCC

CLASS I ZONE 1: CEC, NEC

CLASS I DIV 2: CEC, NEC

#### PERMANENT OPERATION (MAX.)

PANEL MOUNT  
-30 °C ... +60 °C  
(-22 °F ... +140 °F)

OPER. STATION  
-30 °C ... +55 °C  
(-22 °F ... +131 °F)

#### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

### THIN CLIENT EAGLE

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION  
ISA 71.4 G3

#### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

#### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEX, TR EAC, KGS KCC

CLASS I ZONE 1: CEC, NEC; CLASS I DIV 2: CEC, NEC

CLASS II DIV 2: CEC, NEC; CLASS III: CEC, NEC

#### PERMANENT OPERATION (MAX.)

PANEL MOUNT  
-20 °C ... +55 °C  
(-4 °F ... +131 °F)

OPER. STATION  
-30 °C ... +50 °C  
(-4 °F ... +122 °F)

#### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

### THIN CLIENT SHARK

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION  
ISA 71.4 G3

#### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

#### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 21: ATEX, IECEX, TR EAC

ZONE 2 / 22: ATEX, IECEX, TR EAC

#### PERMANENT OPERATION (MAX.)

PANEL MOUNT

OPER. STATION  
-40 °C ... +65 °C  
(-40 °F ... +149 °F)

#### DISPLAY SIZES

7"

10"

15"

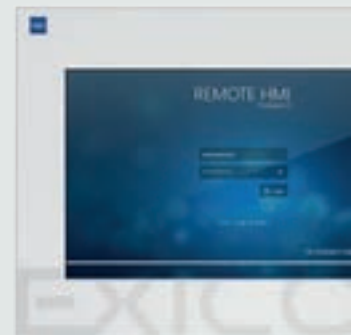
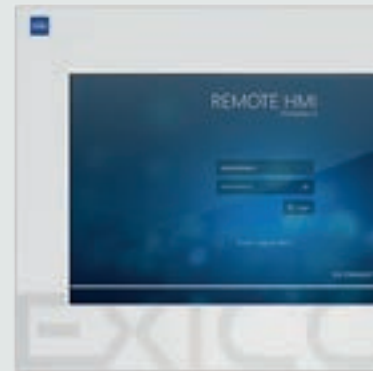
19"

21.5"

22"

24"

24"WU



von Tankla



Our Thin Clients are available in display sizes ranging from 15" up to 24"WU as front panel mounted device or as operator station. All panel mounted versions have been designed for easy integration into cabinets or wall-mounting. The operator stations are available either with FR enclosure or CFR enclosure suitable for cleanroom applications, and are ready for either floor, wall or ceiling mounting.

The KVM over IP system has been designed for connecting single workstations to the network.

All Thin Clients come pre-installed with our latest REMOTE HMI FIRMWARE V5 that ensures enhanced system communication and usability.



## HIGHLIGHTS

- New REMOTE HMI FIRMWARE V5 Windows® 10 IOT
- RDP, VNC or DeltaV DRDC communication
- Remote access from any operator terminal to one/multiple PCs
- Cost-effective hardware, centralized data management

# PANEL PCS

## SERIES 400

The stand-alone HMI Panel PCs can independently perform process tasks on site, as well as DCS, ERP, or MES tasks within the network. The LED backlight technology ensures best quality and readability of process images on site.

Optionally, the monitor is also available with touch screen for intuitive operation while wearing gloves, or when using a touch pen.

The SERIES 400 Panel PCs are ready-to-run worldwide, with pre-installed, multi-lingual Windows® Embedded Standard 7 or Windows® 7 Ultimate operation system – any further, and often time-consuming installation of drivers or operating systems is not required.

READY-TO-RUN.

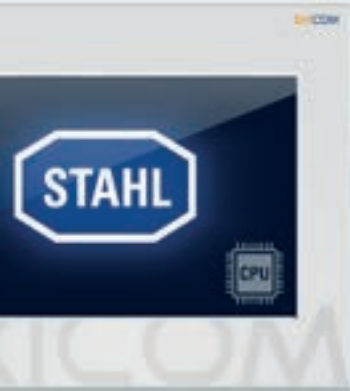


## HIGHLIGHTS

- Ready-to-run, multi-lingual Windows® operating system
- Intel® Atom™ Quad Core or i7 processors
- Open for all types of HMI software, e.g.
  - WinCC®
  - Factory Talk View®
  - Vijeo Citect®



## PANEL PC MANTA



### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN

GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION

ISA 71.4 G3

### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx, TR EAC, KGS KCC

CLASS I ZONE 1: CEC, NEC

CLASS I DIV 2: CEC, NEC

### PERMANENT OPERATION (MAX.)

PANEL MOUNT  
-30 °C ... +60 °C  
(-22 °F ... +140 °F)

OPER. STATION  
-30 °C ... +55 °C  
(-22 °F ... +131 °F)

### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

## PANEL PC EAGLE



### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN

GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION

ISA 71.4 G3

### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx, TR EAC, KGS KCC

CLASS I ZONE 1: CEC, NEC; CLASS I DIV 2: CEC, NEC

CLASS II DIV 2: CEC, NEC; CLASS III: CEC, NEC

### PERMANENT OPERATION (MAX.)

PANEL MOUNT  
-20 °C ... +55 °C  
(-4 °F ... +131 °F)

OPER. STATION  
-30 °C ... +50 °C  
(-22 °F ... +122 °F)

### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

## PANEL PC SHARK



### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN

GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION

ISA 71.4 G3

### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 21: ATEX, IECEx, TR EAC

ZONE 2 / 22: ATEX, IECEx, TR EAC

### PERMANENT OPERATION (MAX.)

PANEL MOUNT

OPER. STATION  
-40 °C ... +65 °C  
(-40 °F ... +149 °F)

### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU



# OPERATOR INTERFACES

## SERIES 200

As a standard, two integrated visualization systems are available for the SERIES 200: SPSPPlus Runtime and Movicon™ CE Runtime. Both visualization systems are pre-installed and licensed, and supplied together with a Windows® Embedded Compact 7 operating system.

SPSPPlus Runtime is a tried and tested visualization software developed by R. STAHL HMI and supports all EXICOM Operator Interface series.

The engineering software SPSPPlusWIN runs on Windows® XP 7/8 and supports fast and affordable project engineering of simple to medium complexity.

The Movicon™ 11 software package is now used with over 80,000 applications and is based on XML technology. It is fully scaleable, contains powerful functions, and supports applications based on Embedded Win CE up to a SCADA platform on Windows® 7/8 and servers.

## SERIES 300

The EAGLE Operator Interfaces have been designed for the visualization of complex automation tasks, machine-level operations, and for tankfarm applications. Pre-configured with a proprietary operating system, the 10.4" and 15" touch screen monitors are ready to run in hazardous areas, Zone 1, 2, 21, 22.

Data transfer is realized over modern Ethernet protocols such as: Ethernet IP, Modbus TCP, or over serial protocols such as Modbus and MPI.

All operator stations of the SERIES 300 allow for remote access to networks and web servers, thus providing comprehensive on-site information.



## HIGHLIGHTS

- Brilliant 7" color display, 800 x 480 pixels
- Extreme temperature range from -40 °C up to + 65 °C (-40 °F up to +149 °F)
- Windows® Embedded Compact 7, and SPSPlus Runtime / Movicon™ CE
- Optionally, open operating system for third-party software

### OPERATOR INTERFACE RAPTOR

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN

GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION

ISA 71.4 G3

#### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

#### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx, TR EAC

#### PERMANENT OPERATION (MAX.)

PANEL MOUNT  
-40 °C ... +65 °C  
(-40 °F ... +149 °F)

OPER. STATION  
-40 °C ... +60 °C  
(-40 °F ... +140 °F)

#### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

## HIGHLIGHTS

- Multi-lingual machine terminal for medium-sized automation tasks
- Proprietary operating system for enhanced security

### OPERATOR INTERFACE EAGLE

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN

GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

CORROSION  
PROTECTION

ISA 71.4 G3

#### SAFE AREA

UNIVERSAL  
USE

HYGIENIC  
DESIGN

#### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx, TR EAC, KGS KCC  
CLASS I ZONE 1: CEC, NEC; CLASS I DIV 2: CEC, NEC  
CLASS II DIV 2: CEC, NEC; CLASS III: CEC, NEC

#### PERMANENT OPERATION (MAX.)

PANEL MOUNT  
-20 °C ... +55 °C  
(-4 °F ... +131 °F)

OPER. STATION  
-30 °C ... +50 °C  
(-22 °F ... +122 °F)

#### DISPLAY SIZES

7"

10"

15"

19"

21.5"

22"

24"

24"WU

# MOBILE DEVICES

## ET-100-SMART-EX-01



The ET-100-Smart-Ex-01 is an ultra-rugged, unlocked, LTE / WiFi / Android™ smartphone suitable for operations in hazardous locations, Zones 1, 2, 21, 22, Division 1, 2 and harsh environments.

With the ET-100, R. STAHL addresses the need for a rugged smartphone that is not only waterproof, dust-proof and shock resistant, but offers the full functionality of a modern smartphone.

With many years of experience in the process industries and in logistics and security, this smartphone has been developed to enhance the safety of employees in hazardous areas.

### HIGHLIGHTS

- Operating System Android™ Kitkat 4.4.4
- 1.2 GHZ Quad Core
- 1.0 GB RAM + 16 GB internal memory
- Expandable up to 12 GB
- 4" TFT display
- Corning Gorilla® glass 2 with glove touch
- WWAN, LTE (4G), UMTS, GSM
- Bluetooth®, Wireless LAN, WiFi
- 8 MP camera / 1 MP front camera
- LED torch light
- Push-to-talk
- Lone worker protection

### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP COMP.  
GAMP FDA 21 PART II

RUGGED  
DESIGN

### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx  
CLASS I DIV 1: CEC, NEC  
CLASS II & III DIV 1: GROUPS E-G T4: CEC, NEC

### IP68 FRONT / BACK

### TEMPERATURE RANGE

-20 °C ... +55 °C (-4 °F ... +131 °F)





## ET-110-TAB-EX-01

The ET-110-Tab-Ex-01 is an ultra-rugged tablet computer suitable for operations in hazardous locations, Zones 1, 2, 21, 22, Division 1, 2 and harsh environments based on the Samsung GALAXY Tab Active.

With the ET-110, R. STAHL addresses the need for a rugged tablet that is not only waterproof, dust proof and shock resistant, but offers the full functionality of a modern tablet computer.



### HIGHLIGHTS

- Operating System Android™ Kitkat 4.4.4
- Quad Core 1.2 GHz processor
- 1.5 GB RAM + 16 GB internal memory
- Optional microSD, expandable up to 64 GB
- 8" TFT display, 1280 x 800 pixels
- WWAN, LTE (4G), UMTS, GPRS
- Bluetooth®, Wireless LAN, WiFi
- Up to 11 hours battery life
- 3 MP camera / 1.3 MP front camera
- Flash with barcode scanner
- Samsung KNOX
- Secure file management
- H/W & S/W secure platform

### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP, cGMP,  
BAMP, FDA 21 PART II

RUGGED  
DESIGN

### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx  
CLASS I DIV 1: CEC, NEC

IP64 FRONT / BACK

TEMPERATURE RANGE

-20 °C ... +50 °C (-4 °F ... +122 °F)

# PERIPHERALS

## RFID CHIPCARD READERS

The RFIDi-RDR chipcard readers are explosion-protected equipment for installation in hazardous areas, Zones 1, 2, 21 and 22 – based on MIFARE® technology.

The devices may be connected to intrinsically safe type RSi reader interfaces of the R. STAHL HMI Systems Operator Interfaces series ET/MT-xx6.

Power supply and data communication takes place via the reader's interface.



### HIGHLIGHTS

- MIFARE® reader
- ASCII / CRYPT versions
- Customized solutions possible

#### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx, KGS KCC

IP66 FRONT / IP20 BACK

TEMPERATURE RANGE

-30 °C ... +60 °C (-22 °F ... +140 °F)

#### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP, CGMP,  
GAMP, FDA 21 PART II

RUGGED  
DESIGN

# IDM BARCODE SCANNER

The IDM barcode scanners identify all popular 1D / 2D codes, and with PDF version also stacked codes. They are available as Bluetooth® or wired versions. The compact housing with up to IP65 withstands drops from 2 m (6.6 ft) on concrete.

An LED gives good read feedback via, beeper and vibrator. All popular corded and cordless interfaces are supported. The exchange of cable and battery is tool-free.



## HIGHLIGHTS

- Identification of all popular 1D / 2D codes
- Hygienic and robust housing with IP65 protection
- Feedback via LED, beeper and vibrator
- Corded and cordless versions

### EXPLOSION PROTECTION CERTIFICATES

ZONE 1 / 2 / 21 / 22: ATEX, IECEx

IP65 FRONT / IP 65 BACK

TEMPERATURE RANGE

-20 °C ... +50 °C (-4 °F ... +122 °F)

### HAZARDOUS AREAS

UNIVERSAL  
USE

HYGIENIC  
DESIGN  
GMP COMP  
GAMP FDA 21 PART II

RUGGED  
DESIGN



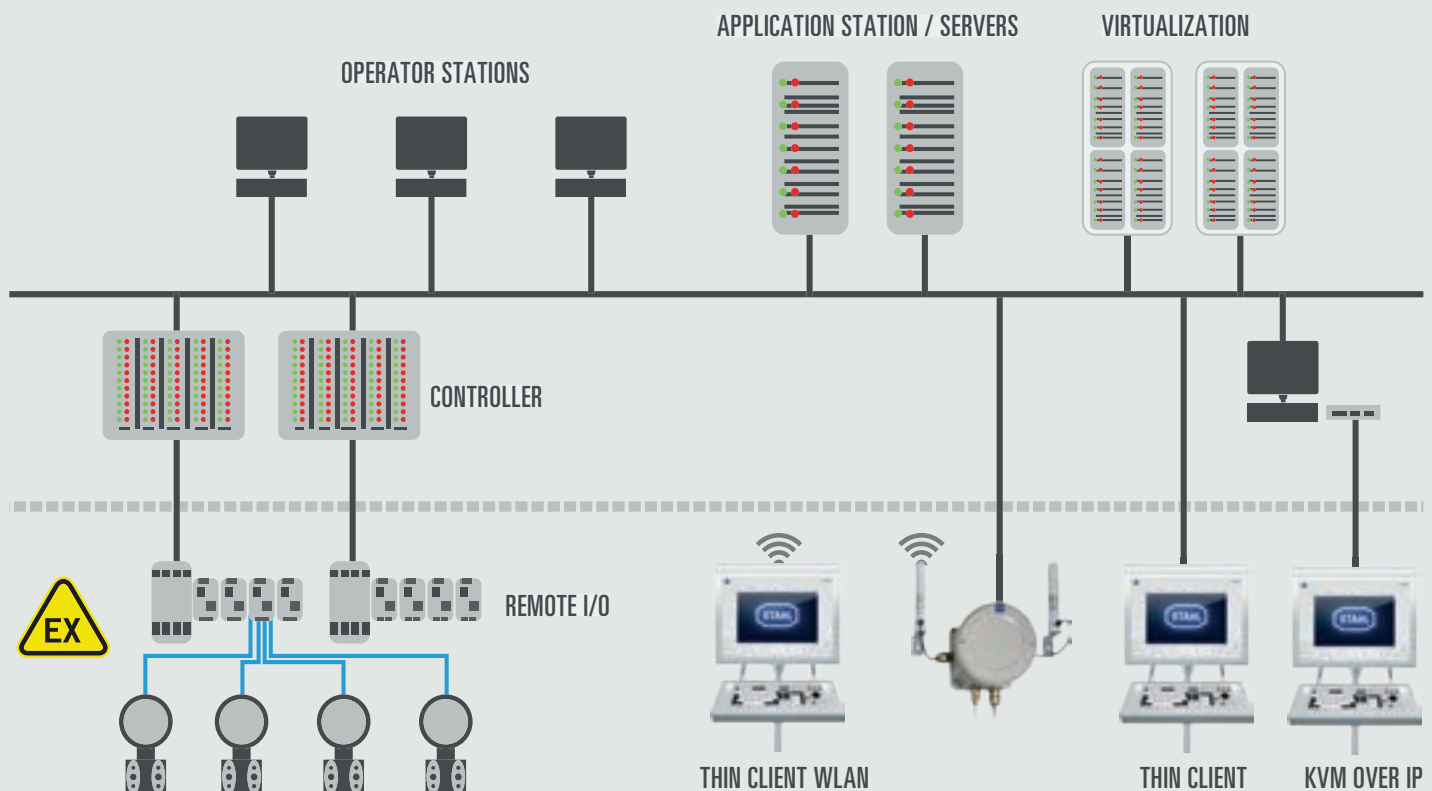
# THIN CLIENTS IN VIRTUAL ENVIRONMENTS

The process industries' demand for modern network technologies, virtual machines, and Thin Clients keeps growing. The main advantages of these technologies are: cost-effectiveness, centralized data and security management, and a high level of flexibility for remote access.

Thin Clients communicate with other clients / PCs, or servers over standard Ethernet TCP/IP, RDP, VNC, thus enabling integrated communications

across all levels – from the field level through to the enterprise management level (ERP).

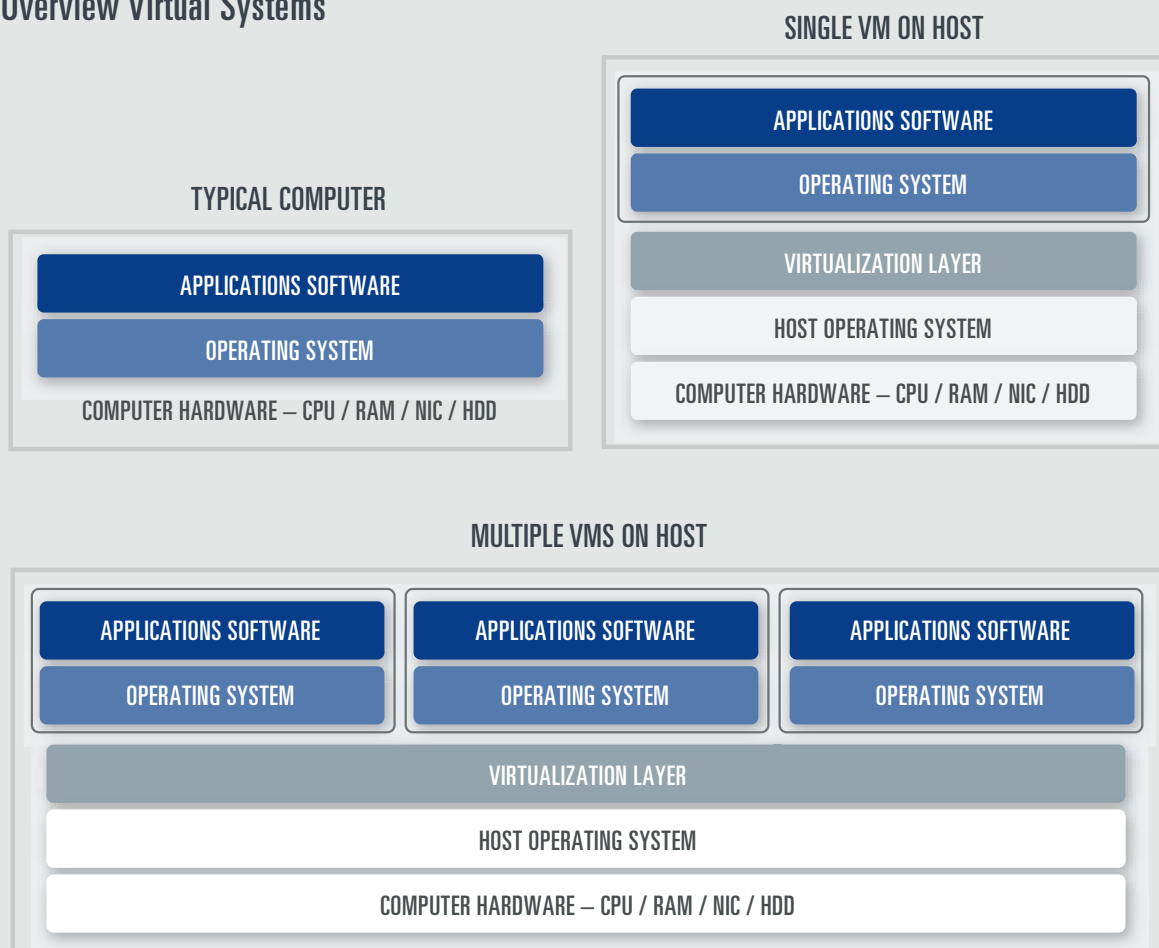
Mobile operators working on-site in the hazardous area can flexibly access any PC, server, or virtual machine from the Thin Client operator terminal, thus providing comprehensive information, and resulting in highly effective operator control and information management. The network technology eliminates any distance limitations.



## FUNDAMENTAL ADVANTAGES OF VIRTUAL ENVIRONMENTS:

- High level of flexibility, remote access to different kinds of machines
- Virtual machines are completely hardware independent
- Virtual machines can run different kinds of operating systems in parallel on one single virtualization software
- More virtual machines can be added by creating a new VMware session
- A virtual machine can easily be replaced while running
- Enhanced security thanks to remote access and centralized hardware management
- Centralized security management on server for enhanced threat and data protection
- Reduced acquisition and maintenance costs

### Overview Virtual Systems



# THIN CLIENT SYSTEMS WITH REMOTE HMI FIRMWARE V5 WINDOWS 10 IOT

The REMOTE HMI FIRMWARE has been developed by our in-house software experts with focus on secure data communications and enhanced usability. Over the years and in close cooperation with manufacturers from different industries, the REMOTE HMI FIRMWARE has been continu-

ously further developed to offer today's wide range of features. The REMOTE HMI FIRMWARE represents the state of the art in comfortable and highly secure data communications in industrial networks.

**NEW**

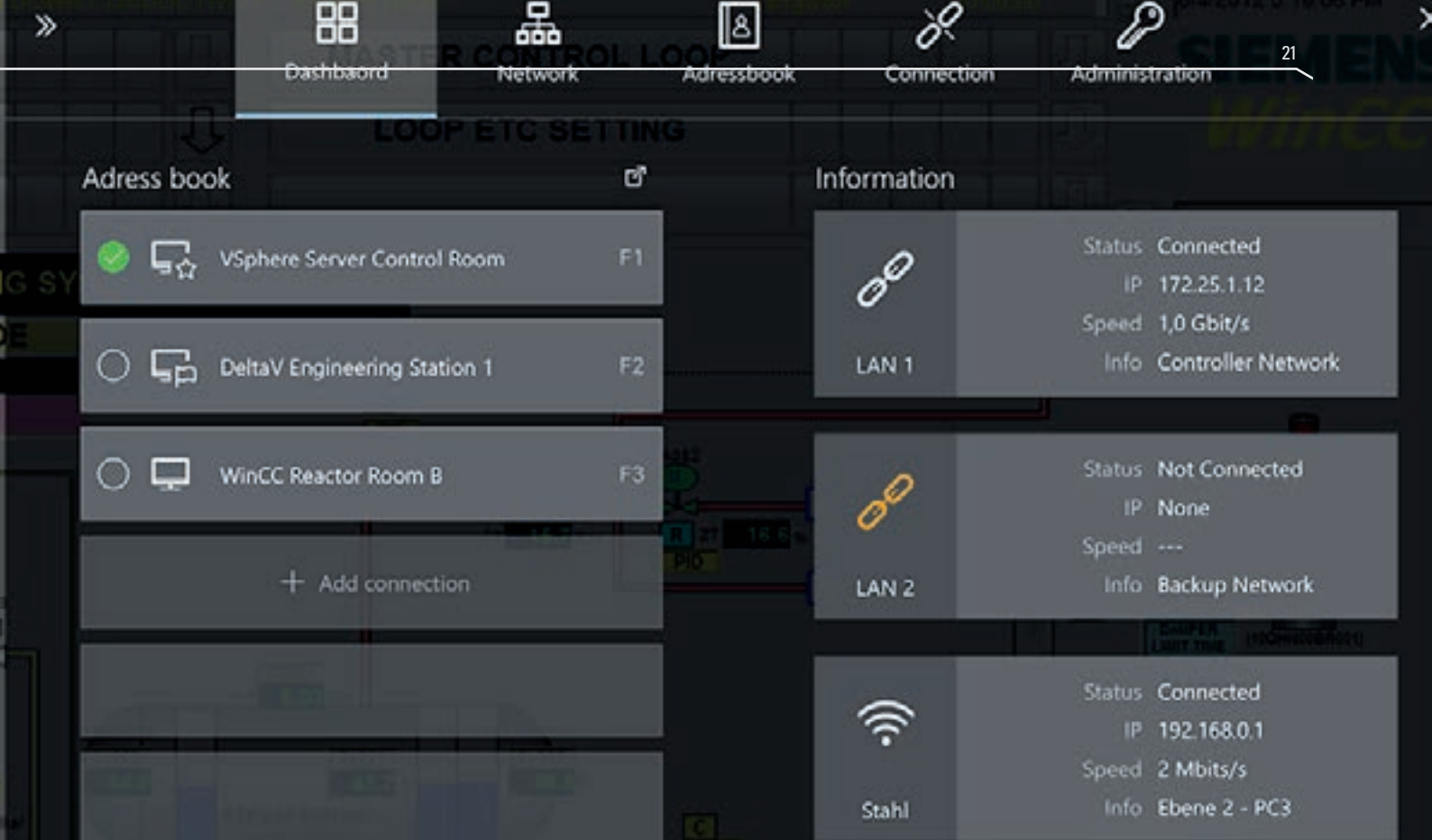
## BASIC FUNCTIONS

- Closed system design
  - High degree of protection against external manipulations
  - Based on Microsoft® Embedded systems
  - Defined access via OSD menu or system console
  - Keyboard shortcuts for system access disabled (F8, Ctrl-Alt-Del...)
- Firmware protection by FILE-BASED WRITE FILTER (FBWF)
- Filtering of all TCP and UDP ports for incoming connections
- Password protection for OSD entries
- Integrated network diagnostics
- Watchdog function for monitoring data communications

## THIN CLIENT DIAGNOSTICS

- Ethernet link
- Local IP address recognizable
- Ping successful
- IP address conflict
- Remote workstation connection not responding
- RDP/VNC server unavailable





### OPERATOR MENU – OSD

- Touch screen calibration
- Display brightness adjustment
- Right-click de-/activation
- Operator input block
- Access to address book
- Software keyboard in 21 languages

### CONFIGURATION

- Network configuration for remote HMI
- Connection details of address book input fields
- KVM box setting (for KVM box connection)
- Configuration management via system console
- Access to integrated offline help / manual

### ADDRESS BOOK

- Connected / not connected
- Multiple input switch
- Startup/primary connection
- Fallback connection
- Hot key connection
- Software Support Center

### NETWORK SETTINGS

- Configuration of network settings
- DHCP / IP address
- Integrated network scanner
- Default configuration available

### SOFTWARE SUPPORT CENTER

- Various experts for installation, integration and software solutions available

### LAN MONITORING

- ADD MAC address retrieved from scanner
- PC name
- Monitoring of selected PCs
- Monitoring of all configured PCs

# ENCLOSURES

## STANDARD ENCLOSURES



### FR ENCLOSURE

For any type of application



### CFR ENCLOSURE

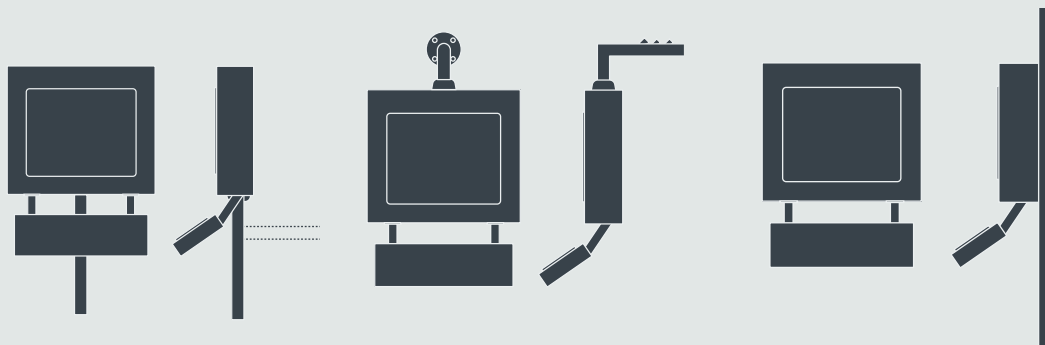
For clean rooms, aseptic/food processing



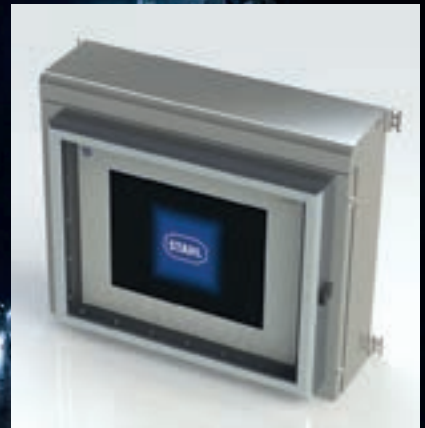
### GMP ENCLOSURE – FOR SAFE AREAS ONLY

## MOUNTING OPTIONS

### CUSTOMIZED MOUNTING OPTIONS



## CUSTOMIZED SOLUTIONS



# ACCESSORIES

## HARDWARE



WLAN + ACCESS POINT



Ex i Mifare Card Reader



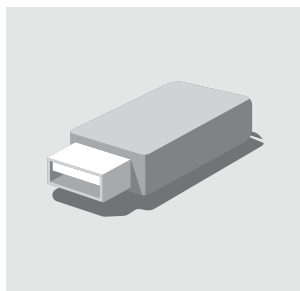
Ex i Keyboard  
available as panel-mount module, or stand-alone keyboard in „office style“



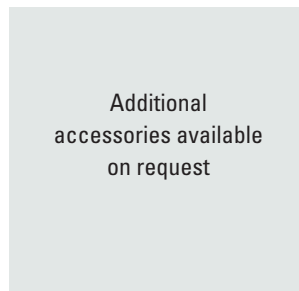
Touch Pen  
ideal to perform precise touch operation in hazardous areas



Ex i Barcode Scanner



Backup/Recovery Stick



Additional  
accessories available  
on request

## SOFTWARE



Operating System



Remote Administration  
Software



R. STAHL  
Remote HMI Firmware



SPSPlusWIN / MOVICON™ 11  
Project Engineering Software



# OUR EXPERTS



Our R. STAHL HMI experts are ready to assist you.

## CONSULTING SERVICE

Our team of experts advise you on all issues related to HMIs in the process industries. They are ready to assist you with selecting the right HMI system, the optimum set of product configurations, and they provide you with detailed information on software solutions, mounting options, and on the special features of our HMI systems.

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# R. STAHL: YOUR GLOBAL PARTNER

## FOR THE SAFETY OF YOUR EMPLOYEES AND YOUR GLOBAL PROJECTS

We are at your service around the globe: with seven production sites, subsidiaries in 24 countries and 60 agencies. Our international employees understand your needs and offer you R. STAHL quality – no matter where you need it.





Thanks to this global presence, we realize international joint projects that include customers, planners, installation companies and operators from various countries. And we take care of the needs of everyone involved in the project – right on site.

At the same time we ensure compliance with the various legal stipulations relevant for each project since we have international certifications and approvals available worldwide.



## OUR PRODUCTION SITES

### R. STAHL

- |   |  |
|---|--|
|  Headquarters    |  Subsidiary |
|  Production site |  Agency     |



Germany - Waldenburg

Germany - Cologne

Germany - Wei



mar



Netherlands



Norway



India



USA





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