atex Ɛx
delvalle®

HAZARDOUS AREA SOLUTIONS

atex@atexdelvalle.com | www.atexdelvalle.com

INDUSTRIAL PANEL PC OPERATOR WORKSTATION HMI
ATEX & IECEX

ROBOT

INSTRUMENT

CONTROL SYSTEM

INDUSTRY 4.0

SMART OIL & GAS

HMI

SENSOR

MONITORING TOOL

IECEx

Ɛx

Delvalle, wide experience in manufacturing solutions for hazardous area

WE PUT AT YOUR DISPOSAL

We offer over **45 years** providing hazardous area **solutions** to demanding customers who require very specific characteristics and behaviour according to the sector and their needs.

WHEREVER YOU GO

We are committed to working closely with our customers, providing them with exceptional service and offering an advanced and **extensive range of hazardous area products** with very competitive prices.

CONSULTING & ENGINEERING

Atex Delvalle adapts to our clients' needs by offering hazardous-area systems.
Certified Junction Box Assembly.
Atex-delvalle are the leading certified assembler of Ex junction boxes. With an extensive stock holding of stainless steel enclosures, our workshops are able to provide unrivalled competence, expertise, quality and service to customer specifications.
Our customized services, experienced design and drafting 3D support.

HIGH STANDARD OF QUALITY AND SERVICES

We only use materials provided by companies who offer the very highest quality, suitable and certified products. Our success is due to **top quality** assurance:
ISO 9001, SGS, UL, TÜV, ISO 14000, Ohsas 18001, ATEX, IECEx.

CONTACT US
Confidentiality, reliability & quality

www.atexdelvalle.com
atex@atexdelvalle.com
+34 945 601 381

ALSO ONLINE

Please contact our technical sales department.
A team of professionals with high experience and ability to solve all your queries.

INDUSTRIAL PANEL PC OPERATOR WORKSTATION HMI
ATEX & IECEX

Affordable Electronics

Example Geoex

Example Luxorex

→ FOR MORE INFORMATION CLICK HERE

Atex Delvalle PC operated workstations monitor HMI are an extension of control room connectivity out in the field. Every HMI workstation has been engineered to endure the harsh & hazardous environments of the plant floor, fully certified Atex & IECEx.

Access in the field saves time and prevents process upsets. The leveraging of desktop PCs for automation control is very common.

PC operated workstations HMI are a completely enclosed HMI that outperforms the abysmal conditions aboard open sea and land drilling rigs. A virtually indestructible display for monitoring and control, it's suitable for the rig floor or anywhere an extremely rugged panel PC is required. PC operator workstations HMI is a zones 2 and 22 operated workstation.

Its high-bright, LED backlit LCD panel provides high performance with a glove-friendly touchscreen.

Rugged HMI´s have replaced many hydraulic gauges, recorders, and counters used for drilling wells. Visualization provides greater detail compared to hydraulic gauges.It's been instrumental in improving the efficiency of the drilling operation and in proliferating drill-by-wire.

OPTIONS

- Flexible mounting options.

- Easily customized to fit your application.

ADVANTAGES

- Complex processes can be displayed in much greater detail and laid out more clearly on larger monitors.

- Affordable electronics.

- Better processing speed for high-end graphics desired by machine builders.

- Siemens based open software systems offer the greatest flexibility and integration while improving learning curves.

- We offer dual rated operator workstations for Class I, Div. 2, and Zone 2,22 (ATEX).

- The Atex & IECEx HMI workstations are optimized to perform under harsh and difficult conditions with wide temperature ranges, shock and vibration resistance, and overall ruggedness to stand up to the grimy, wet conditions commonly found in oil and gas, food processing, or chemical facilities.

APPLICATIONS

- PC operator workstations HMI is a Zone 2 & 22 operator workstation.

- Production energy exploration, extraction, and refining industries..

TECHNICAL FEATURES

- Portable and field maintainable.

- Passive liquid cooling dissipates heat without a cooling fan.

- Optically bonded LCD offers clear resolution under any light conditions.

- System prevents data loss in power failure

- High operating temp.

- 7 ", 9'' or 12'' screen high resolution and high contrast with screen quality of 16 million colors.

- Sunlight readable display.

- Transfer data using cable standard (Cable Ethernet standard, cable USB standard).

- Communication options: PROFIBUS and PROFINET

- Flexible adaptation to each individual task and can be integrated in an existing infrastructure.

- Rugged and completely maintenance-free for use directly at the machine, even outdoor and in shipbuilding.

INDUSTRIAL PANEL PC OPERATOR WORKSTATION MONITOR HMI **ATEX & IECEX**

MARKING

- II 3G Ex nA nC IIC T4 Gc
- II 3D Ex tc IIIC T135°C Dc IP65

CERTIFICATE

- Delvalle 16ATEX0700
- Certificate LOM 14ATEX3028U
- Certificate LOM 14ATEX3026U

NORMATIVE

- Directive 2014/34/UE
- EN 60079-0:2012
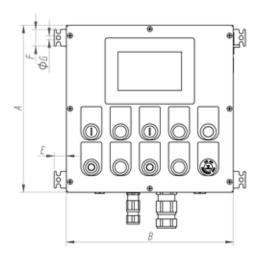- EN60079-15:2013

NORMATIVE, CERTIFICATES

- Marked CE: Yes
- Culus: Yes
- RCM (previus C-TICK): Yes
- Homologation KC: Yes
- Naval certifications
  - Germanischer Lloyd (GL): Yes
  - American Bureau of Shipping (ABS): Yes
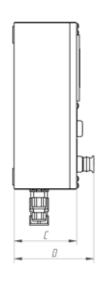 - Bureau Veritas (BV): Yes
  - Det Norske Veritas (DNV): Yes

- Lloyds Register of Shipping (LRS): Yes
- Nippon Kaiji Kyokai (Class NK): Yes
- Use in potentially explosive atmospheres>
  - ATEX zone 2: Yes
  - ATEX zone 22: Yes
  - IECEx zone 2: Yes
  - IECEx zone 22: Yes
  - Culus Class I zone 2, division 2: Yes
  - FM Class I Division 2: Yes
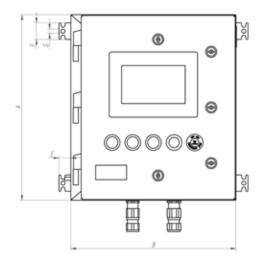
BLUEPRINT AND DIMENSIONS
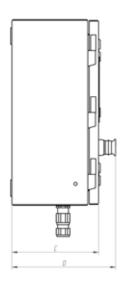
Enclosure Geoex PC without hinges

Enclosure Luxorex PC with hinges and locks

	DIMENSIONS (mm)						
	A	B	C	D	E	F	ØG
Enclosure without hinges	400	400	150	191	29	40	10
Enclosure with hinges and locks	400	450	210	251	29	40	10

CRITERIA FOR CHOOSING TOUCH SCREEN HMI (7" - 9" - 12")

The Perfect Option for Wokstation HMI

Atex Delvalle PC operated workstations monitor HMI Ex can be used directly in hazardous zones 2 and 22 without the need for special measures such as complex and expensive enclosures or additional certification processes. Furthermore the units are capable of withstanding considerable vibrations and shocks and have been certified for use in shipbuilding.

We have various dimensions: SIMATIC HMI TP700 - 7", SIMATIC HMI TP900 - 9" and SIMATIC HMI TP1200 -12". There are also three-dimensional SIPLUS HMI TP700 - 7", SIPLUS HMI TP900 - 9" and SIPLUS HMI TP1200 - 12", which have a higher resistance to chemical and biological gases and have optimum reliability through a wide temperature range both in the start-up phase and during operation.

Industrial panel PC operator workstations monitor HMI is particularly suitable for operator control and monitoring, measuring and testing as well as for data collection, communication and other applications close to the machine in hazardous zones 2 and 22

With its 7 inch display the PC can handle standard visualization tasks as well as more demanding applications. Unit is also available with a particularly luminous display for use in daylight applications.

➜ **FOR MORE INFORMATION CLICK HERE**

TOUCH SCREEN HMI 7"

REF: SIMATIC HMI TP700

DISPLAY

- Display: TFT

- Screen diagonal: 7 in

- Display width: 152,4 mm

- Display height: 91,4 mm

- Color number: 16 777 216

- Resolution (pixels):

  o Horizontal image resolution: 800 Pixel

  o Vertical image resolution: 480 Pixel

- Backlighting

  o MTBF Backlighting (with 25 °C): 80 000 h

  o Variable Backlighting: Yes; 0-100 %

SUPPLY VOLTAGE

- Type of supply voltage: DC

- Permissible range, lower limit (DC): 19,2 V

- Permissible range, higher limit (DC): 28,8 V

- Purchase: 0,5 A

- Intensity of connection I^2t: 0,5 A² ·s

PROPETIES WEB

- HTTP: Yes

- HTTPS: Yes

- HTM: Yes

- XML: Yes

- CSS: Yes

- Active X: Yes

- JavaScript: Yes

PROCESSOR

Processor: X86

POWER

Use.: 12 W

TOUCH SCREEN HMI 7"

REF: SIMATIC HMI TP700

PROTOCOLS (ETHERNET)

- TCP/IP: Yes
- DHCP: Yes
- SNMP: Yes
- DCP: Yes
- LLDP: Yes

OTHER PROTOCOLS

- CAN: No
- EtherNet/IP: Yes
- MODBUS: Yes

OTHER FEATURES

- Operating temperature: 0°C - 50°C
- Protection: IP65
- Use in hazardous areas: ATEX zone 2 and 22.
- Certificate and normative:
    - EN60079-15:2010, EN60079-0:2012+A11:2013 y EN60079-31:2014
    - II 3G Ex nA IIC T4 Gc
    - II 3D Ex tc IIC T70°C Dc

MEMORY

- Flash: Yes
- RAM: Yes
- Capacity of memory: 12 Mbyte

INTERFACES

- N° of interfaces Industrial Ethernet: 1; 2 (switch)
- N° of interfaces RS 485: 1; RS 422/485 combined
- N° of interfaces USB: 2; USB 2.0
    - USB mini-B: 1; 5
- N° of interfaces 20 mA (TTY): 0
- N° of interfaces RS 232: 0
- N° of interfaces RS 422: 0; RS485
- N° of parallel interfaces: 0
- N° other interfaces: 0
- Number of compact flash slots: 2
- Interfaces SW: No
- Industrial Ethernet
    - LED Industrial Ethernet: 2
    - N° switch ports integrated: 2
- Protocols
- PROFINET: Sí
- Supports protocol for PROFINET IO: Sí
- IRT: Yes; WinCC V12 or higher
- MRP: Yes; WinCC V12 or higher
- PROFIBUS: Yes
- MPI: Yes

INDUSTRIAL PANEL PC OPERATOR WORKSTATION MONITOR HMI **ATEX & IECEX**

TOUCH SCREEN HMI 9''

REF: SIMATIC HMI TP900

◢ DISPLAY

- Display: TFT

- Screen diagonal: 9 in

- Display width: 195 mm

- Display height: 117 mm

- Color number: 16 777 216

- Resolution (pixels):

  o Horizontal image resolution: 800 Pixel

  o Vertical image resolution: 480 Pixel

- Backlighting

  o MTBF Backlighting (with 25 °C): 80 000 h

  o Variable Backlighting: Yes; 0-100 %

◢ SUPPLY VOLTAGE

- Type of supply voltage: DC

- Permissible range, lower limit (DC): 24V

- Permissible range, higher limit (DC): 19,2 V

- Purchase: 0,5 A

- Intensity of connection I²t: 0,5 A² ·s

◢ PROPETIES WEB

- HTTP: Yes

- HTTPS: No

- HTM: Yes

- XML: No

- CSS: Yes

- Active X: No

- JavaScript: Yes

◢ PROCESSOR

Processor: X86

◢ POWER

Use.: 18 W

TOUCH SCREEN HMI 9"

REF: SIMATIC HMI TP900

MEMORY

- Flash: Yes
- RAM: Yes
- Capacity of memory: 12 Mbyte

PROTOCOLS (ETHERNET)

- TCP/IP: Yes
- DHCP: Yes
- SNMP: Yes
- DCP: Yes
- LLDP: Yes

OTHER PROTOCOLS

- CAN: No
- EtherNet/IP: Yes
- MODBUS: Yes

OTHER FEATURES

- Operating temperature: 0°C - 50°C

- Protection: IP65

- Use in hazardous areas: ATEX zone 2 and 22.

- Certificates and normatives:

  o EN60079-15:2010, EN60079-0:2012+A11:2013 y EN60079-31:2014

  o III 3G Ex nA IIC T4 Gc

  o III 3D Ex tc IIC T70°C Dc

INTERFACES

- N° of interfaces Industrial Ethernet: 1; 2 (switch)

- N° of interfaces RS 485: 1; RS 422/485 combined

- N° of interfaces USB: 2; USB 2.0

  o USB mini-B: 1; 5

- N° of interfaces 20 mA (TTY): 0

- N° of interfaces RS 232: 0

- N° of interfaces RS 422: 0; RS485

- N° of parallel interfaces: 0

- N° other interfaces: 0

- Number of compact flash slots: 2

- Interfaces SW: No

- Industrial Ethernet

  o LED Industrial Ethernet: 2

  o N° switch ports integrated: 2

- Protocols

- PROFINET: Sí

- Supports protocol for PROFINET IO: Sí

- IRT: Yes; WinCC V12 or higher

- MRP: Yes; WinCC V12 or higher

- PROFIBUS: Yes

- MPI: Yes

INDUSTRIAL PANEL PC OPERATOR WORKSTATION MONITOR HMI **ATEX & IECEX**

TOUCH SCREEN HMI 12"

REF: SIMATIC HMI TP1200

DISPLAY

- Display: TFT

- Screen diagonal: 12,1 in

- Display width: 261,1 mm

- Display height: 163,2 mm

- Colors number: 16 777 216

- Resolution (pixels):

  o Horizontal image resolution: 1280 Pixel

  o Vertical image resolution: 800 Pixel

- Backlighting

  o MTBF Backlighting (with 25 °C): 80 000 h

  o Variable Backlighting: Yes; 0-100 %

SUPPLY VOLTAGE

- Type of supply voltage: DC

- Permissible range, lower limit (DC): 24V

- Permissible range, higher limit (DC): 19,2 V

- Purchase: 0,5 A

- Intensity of connection I²t: 0,5 A² ·s

PROPETIES WEB

- HTTP: Yes

- HTTPS: No

- HTM: Yes

- XML: No

- CSS: Yes

- Active X: No

- JavaScript: Yes

PROCESSOR

Processor: X86

POWER

Use.: 20 W

INDUSTRIAL PANEL PC OPERATOR WORKSTATION MONITOR HMI ATEX & IECEX

TOUCH SCREEN HMI 12"

REF: SIMATIC HMI TP1200

MEMORY

- Flash: Yes
- RAM: Yes
- Capacity of memory: 12 Mbyte

PROTOCOLS (ETHERNET)

- TCP/IP: Yes
- DHCP: Yes
- SNMP: Yes
- DCP: Yes
- LLDP: Yes

OTHER PROTOCOLS

- CAN: No
- EtherNet/IP: Yes
- MODBUS: Yes

OTHER FEATURES

- Operating temperature: 0°C - 50°C
- Protection: IP65
- Use in hazardous areas: ATEX zone 2 and 22.
- Certificates and normatives:
  - EN60079-15:2010, EN60079-0:2012+A11:2013 y EN60079-31:2014
  - III 3G Ex nA IIC T4 Gc
  - III 3D Ex tc IIC T70°C Dc

INTERFACES

- N° of interfaces Industrial Ethernet: 1; 2 (switch)
- N° of interfaces RS 485: 1; RS 422/485 combined
- N° of interfaces USB: 2; USB 2.0
  - USB mini-B: 1; 5
- N° of interfaces 20 mA (TTY): 0
- N° of interfaces RS 232: 0
- N° of interfaces RS 422: 0; RS485
- N° of parallel interfaces: 0
- N° other interfaces: 0
- Number of compact flash slots: 2
- Interfaces SW: No
- Industrial Ethernet
  - LED Industrial Ethernet: 2
  - N° switch ports integrated: 2
- Protocols
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- Supports protocol for PROFINET IO: Sí
- IRT: Yes; WinCC V12 or higher
- MRP: Yes; WinCC V12 or higher
- PROFIBUS: Yes
- MPI: Yes

DELVALLE OFFERS
OTHER SOLUTIONS ATEX & IECEX

➤ CLICK HERE AND DISCOVER ALL SOLUTIONS

ATEX TERMINAL BOXES
TERBOX SERIES

EX LOCAL CONTROL & DISTRIBUTION BOXES
CONTREX SERIES

PLUG AND SOCKET BOXES
CONNEX SERIES

FLAMEPROOF CONNECTION BOXES
EJB SERIES

EX LIGHTING FIXTURE
ATEX

PRESSURIZED ENCLOSURE EX P
PEPPEX SERIES

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Contact us at:
atex@atexdelvalle.com
We'll give a solution as

DELVALLE OFFERS
OTHER SOLUTIONS ATEX & IECEX

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EX CABLE GLANDS
ATEX & IECEX
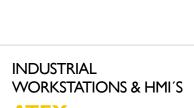
MOTOR AND SWITCH MACHINES
ATEX & IECEX

EX PUSH BUTTON STATION
CONTREX SERIES

INDUSTRIAL WORKSTATIONS & HMI´S
ATEX

EX 19" RACK
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HAZARDOUS WIRELESS & ANTENNA SYSTEMS
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FLEXIBLE ATEX & IECEX SOLUTIONS

atex Ex
delvalle®

Paso del Prao, 6. 01320 Oyón (Álava). Spain
Telf. +34 945 601 381
www.atexdelvalle.com - atex@atexdelvalle.com
Contact us, we will be available at any time