PCEX 410

The PCEX 410 is the ideal platform for all customized visualization tasks based on your application software and your favorite SCADA software. The touchscreen, the 10.4" TFT display, the wide range of interfaces (Ethernet, RS485/TTY, USB, external expansion keyboard, barcode reading systems etc.) and the fieldbus connections set new benchmarks when it comes to visualization and communication in the hazardous area.

	PCEX 410
Approvals: ATEX 95, directive 94/9/EG:	
Category:	II 2G
Type of protection:	EEx qe [ib] IIC T4
Type examination certificate:	IBEXU 04 ATEX 1190
Degree of protection of case:	
Degree of protection of case (front):	IP 65
Degree of protection of case (rear):	IP 54 (in the EEx ib terminal compartment IP20)
Dimensions (WxHxD) in mm	
Dimension:	452 x 295 x 140
Cutout dimensions:	416 x 258
Surface-mounting case (IP65):	552 x 440 x 219
Ambient conditions:	
Operating temperature range:	0°C … +45°C
Storage temperature range:	-20°C … +60°C
Relative humidity:	Max. 85% without condensation (48 Std. endura test)
Weight:	17 kg
Power supply:	
Supply voltage:	24V DC $\pm$ 20%; power supply, unit acc. to EN60950
Power consumption:	max. 36W
Degree of protection:	EEx e
Place of connection:	EEx e terminal compartment, clamp X1
Type of connection:	Screw terminal
Range of the cross-section:	0,5 - 2,5mm^2
Display:	
Type:	TFT active matrix with touch (resistiv)
Size: B x H (mm), active range	211,2 x 158,4 (10,4" diagonal)
Colors:	262144 (18 bit)
Pixels:	800 x 600 (SVGA)
Pixel pitch:	96dpi
Image refresh rate:	Max. 75 Hz
Contrast (typical):	300
Brightness (typical):	230 cd/m^2
Reading off angle:	Horizontal 120°, vertical 100°

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External keyboard (EXTA-Kx, option):	
Degree of protection:	EEx ib
Interface, type:	PS/2 intrinsically safe
Type of connection:	Screw terminal
Place of connection:	EEx ib terminal compartment
*Range of the cross-section:	$0,1 - 2,5$ mm^2
External pointing device (EXTA-Kx, option):	
Degree of protection:	EEx ib
Interface, type:	PS/2 intrinsically safe
Type of connection:	Screw terminal
Place of connection:	EEx ib terminal compartment
*Range of the cross-section:	$0,1 - 2,5$ mm^2
USB-1:	
Degree of protection:	EEx ib
Interface, type:	USB 1.1 intrinsically safe
Type of connection:	Screw terminal
Place of connection:	EEx ib terminal compartment
*Range of the cross-section:	$0,1 - 2,5$ mm^2
TTY 20mA (1):	
Degree of protection:	EEx ib
Interface, type:	20mA current interface active
Type of connection:	Screw terminal
Place of connection:	EEx ib terminal compartment
*Range of the cross-section:	$0,1 - 2,5$ mm^2
TTY 20mA (2):	
Degree of protection:	EEx e; devices acc. EN60950
Interface, type:	20mA current interface passive
Type of connection:	Screw terminal
Place of connection:	EEx e terminal compartment
*Range of the cross-section:	$0,5 - 2,5$ mm^2
RS485:	
Degree of protection:	EEx e; devices acc. EN60950
Interface, type:	RS485 with end terminal-
Type of connection:	Screw terminal
Place of connection:	EEx e terminal compartment
*Range of the cross-section:	$0,5 - 2,5$ mm^2

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USB-2:	
Degree of protection:	EEx e; devices acc. EN60950
Interface, type:	USB 1.1
Type of connection:	Screw terminal
Place of connection:	EEx e terminal compartment
*Range of the cross-section:	0,5 - 2,5 mm^2
Ethernet:	
Degree of protection:	EEx e; devices acc. EN60950
Interface, type:	10/100BASE-TX
Type of connection:	Screw terminal
Place of connection:	EEx e terminal compartment
*Range of the cross-section:	0,5 – 2,5 mm^2 2,5 mm^2 with identical cross-section and conductor type 2 x 1mm^2

* Range of the cross sections:

The range of the cross section refers to massive conductors. With use of flexible wires with wire end sleeves the max. rated cross section decreases by 1 stage.

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Computer – kernel:	
CPU:	X86 compatible processor
System memory:	256 MB SDRAM
Frequency:	400 MHz
Hard disk:	1,8" 20 GB
VGA/LCD interface:	
Chipset:	VIA Twister chip with integrated Savage4 2D/3D/Video Accelerator
Video memory:	supports 8/16/32 MB
Ethernet interface:	
Chipset:	RTL 8139
Ethernet interface:	10/100 BASE-T-Fast Ethernet compatible