

PCEX 412

The PCEX 412 panel PC belonging to the VISUEX product family is designed for use in hazardous areas in accordance with categories II 2G (Zones 1+2) and II 2D (Zones 21+22). Thanks to its open PC platform, it is ideally suited as a machine panel, a client for visualization tasks, a soft PLC with lower-level remote I/Os, or a browser based terminal in an Internet/intranet application.

	PCEX 412
Approvals: ATEX 95, directive 94/9/EG:	
Equipment category:	II 2G, II 2D
Type of protection:	EEx qe [ib] IIC T4 EEx qe [ib] II 2D IP 65 T95°C
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 65
Dimensions (WxHxD) in mm	
Dimension:	396 x 305 x 172
Cutout dimensions:	360 x 268
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. endurance test)
Weight:	22 kg
Power supply:	
Supply voltage:	24V DC \pm 20%; power supply, unit acc. to EN60950
Power consumption:	max. 44W
Degree of protection:	EEx e
Place of connection:	EEx e terminal compartment
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	245,8 x 184,3 (12" diagonal)
Colors:	262144 (18 bit)
Pixels:	1024 x 768 (XGA)
Pixel pitch:	96dpi
Image refresh rate:	Max. 75 Hz
Contrast (typical):	500
Brightness (typical):	300 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:	0,08 - 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:	0,08 - 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:	0,08 - 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:	0,08 - 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

*** 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:	733 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