PhoenixTouch24

Fireproof 24"-Touch-Panel-PC für installation in escape ans rescue routes

PhoenixTouch24 – Fireproof Touch Display

With the non-combustible PhoenixTouch24, we have developed a touch panel PC that has been specially designed for locations with stringent fire safety requirements.
Very strict fire protection requirements often make it impossible to install standard monitors.
The PhoenixTouch24 is suitable for precisely such locations - for example, for installation in escape and rescue routes.
These include, for example, stairwells and entrance areas or corridors of public buildings, which are the only escape route available in the event of a fire.

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Suitable for escape and rescue routes - The NRW Materials Testing Institute in Erwitte carried out the test procedure required for classifying the fire behaviour of building materials in accordance with DIN EN 13823 (SBI test). The results are well above the criteria for classification as a non-combustible building material and also prove that there is no need to assume any risk from fire smoke or burning droplets (building material class A2 -s1, d0). This test result of the 'PhoenixTouch24' proves a significantly better fire behaviour than for the next lower flammability class 'flame-retardant', which can also be achieved by materials with considerable quantities of flammable substances and whose usability in escape routes can give rise to concerns.

- **Can be operated by touch** - despite special fire-resistant glass
- **Vandal-proof metal housing** with special wall mounting plate
- **No freely accessible connections, no exposed cables**: due to the direct entry of cable systems from the wall of the building into the housing, there is hardly any possibility of the device function and reliability being disabled by external damage to the cable system
- Virtually oxygen-free interior: **maximum fire protection** in the event of internal fault
- Compared to housed displays and monitors, the PhoenixTouch24 is **compact, relatively flat and requires little space**

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Fire test of the PhoenixTouch24

In the SBI test in accordance with DIN EN 13823, the potential contribution of a building product to a developing fire is assessed in a fire situation that simulates a single burning item (Single Burning Item: SBI) in a corner of a room near the building product. During the test, the combustion gases are collected via an extractor fan in order to analyse them with a view to measuring the amount of heat and smoke emitted during this time. It is also observed whether burning droplets form or burning particles rain down. The SBI test was developed at European level for the fire classification of construction products and is intended to simulate a realistic fire situation.

The test result is well above the criteria for the classification as a non-combustible building material and also proves, that neither a hazard from burning smoke nor from burning dripping must be assumed (building material class A2 -s1, do). This test result of the MOStron PhoenixTouch24 proves a significantly better fire behaviour than for the next weaker flammability class 'flame-retardant', which can also be achieved by materials with considerable quantities of flammable substances and whose usability in ambulances may give rise to concerns.

The small quantities of combustible materials are prevented from any involvement in fires and the release of fire and smoke by the complete encapsulation by non-combustible building materials.

As the MOStron PhoenixTouch24 cannot be regarded as a homogeneous material (as it consists not only of one material, but of various combined components), it can only be concluded that the device can theoretically achieve a certain class.

We will be happy to send you the statement of the Material Examination Office NRW on request.

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General Information	
Application	Digital Signage, digital guidance system, room occupancy system, digital Advertising.
Chassis	Chrome steel housing closed on all sides without colour coating Housing material classified as A1 in terms of its fire behaviour (in accordance with DIN EN 13501-1). Brushed chrome steel embedded safety glass Fire resistance class E(G)30
Cooling	Convection cooling through heat pipe system
Mounting and installation options	Surface-mounted with (wall) mounting plate; Flush-mounted with mounting frame
Image Sticking	In order to avoid image sticking (burn-in effect) on your display, we recommend that you follow the instructions below: • Try to avoid static contents on your display (don't use it as a simple billboard). After 5 minutes any static screen content should be replaced by a moving picture for at least 10 seconds. • If possible, do not always place your logo or other repetitive contents (e.g. greeting template) in the same place. • If possible, do not always fill the background with the same colour. Plan alternating colours or pictures. Use a moving picture or pure black as a screen saver
Theft Protection	Lockable housing with security lock

Technical Specification Display	
Display	24"
Display Resolution	1920 x 1080 dots(RGB), aspect ratio 16:9
Colour Depth	16,7 Mio colours (True Colour)
Brightness	250 cd/m²
Backlight	Energy saving LED-edge-backlight
Contrast Ratio	1000:1
Viewing Angle (horizontal/vertical)	85 /85/80/80
Pixel Error Class according to EN ISO 9241-307	II (other classes on inquiry)

Technical Specification	
Dimensions surface-mounted version incl. wall mounting plate	approx. 364 (H) x 596 (W) x 64(D) mm
Supply Voltage	100 – 240 VAC
Power Consumption	approx. 30 Watts
IP-protection class	complete unit IP65
Permissible operation temperature	+ 5° ~ + 35°C
Permissible operation humidity	0 % ~ 95% (relative humidity, without condensation)
Weight	approx. 26 kg
Noise development	barely perceptible
Connections on the back of the display	Mains plug type C21, P67 sealed metal connectors with screw-on metal covers
Power cable	2.0 m IEC connection cable with lock

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Technical Specification of the integrated computer module	
Processor	Intel® Elkhart Lake J6412 Celeron processor 4 cores / base clock 2.0 GHz, max. 2.6 GHz
System Memory	2* SO-DIMM socket for DDR4, 3200 MHz. up to max. 32GB, equipped with 1* 4GB DDR4 SO-DIMM (other capacities optionally available)
Mass Memory	1* M.2 M-key PCIe Gen.3 2242/2280 NVMe + SATA socket equipped with 1* x M.2 2280 NVMe 256GB SSD (other capacities optionally available)
Expansion slots	1* M.2 E-Key 2242/2280, 1* M.2 B-Key 3042 in combination with SIM card slot
Graphics	Intel UHD 10th Gen. Graphic shared Memory
Interfaces on the backside	1* HDMI 2.0b 1* Audio line-out/MIC combo 3.5mm jack socket 3* USB 3.1 (Gen.2) port, 3 x USB 2.0 port 2* Intel® i225V 2.5GbE 1* IEC connector (C13 socket) 1* Power button, LEDs for power, HDD
BIOS	AMI-BIOS UEFI with integrated LAN boot ROM image
Watchdog-Timer	Timeout intervals from 10 sec. - 255 min. (requires trigger software)
System Monitoring	CPU and system temperature, internal operating voltages
Safety	TPM2.0 onboard
Operating System	Windows 10 IOT / Professional, Windows 11 IOT / Professional compatible Linux distributions on request Note: The customer is responsible for operating system maintenance and updates.

Mains voltage supply via temperature-resistant hot appliance power plug

Sealed metal connectors with screw-on metal covers to IP67

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