

Panel mount operator workstation

VisuNet PC8221



- 21.5 inch Full HD display w/ optional touch screen
- Class I/Div 2, Class II/Div 2, ATEX/IECEX Zone 2, and ATEX Zone 22 approved
- Widescreen 16:9 (1920 x 1080) aspect ratio
- Compression fit touchscreen ensures reliable continuous use
- Designed to withstand shock and vibration
- Extended temperature range for indoor/outdoor use
- Intel® Atom™ E3826 1.46 GHz
- 120 GB SSD
- Up to 8 GB RAM

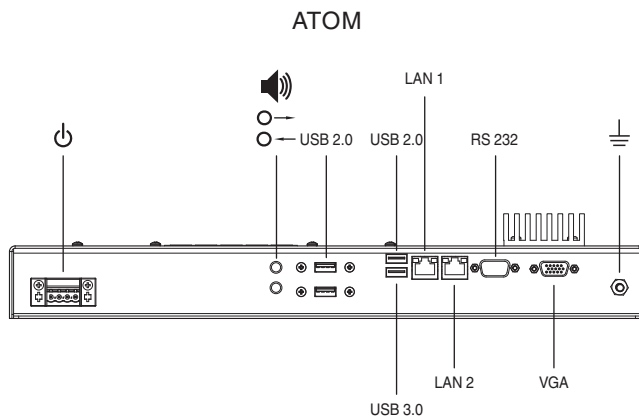
Operator workstation designed for continuous use in harsh environments



Function

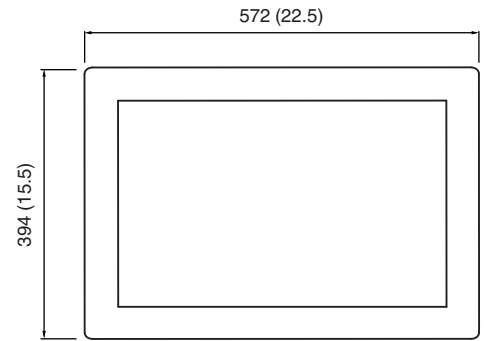
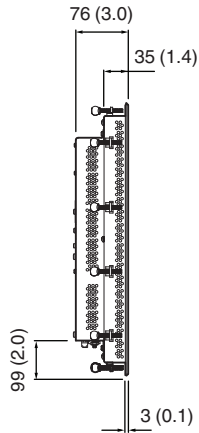
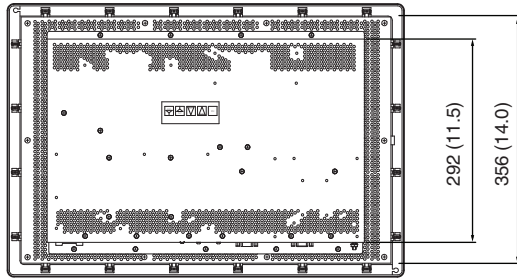
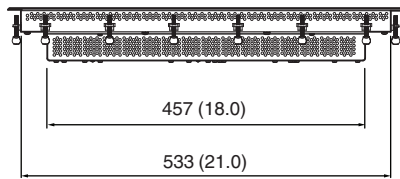
The PC8221 panel mount operator workstation is designed for continuous use in harsh environments commonly found in industrial manufacturing, oil & gas, and chemical applications. The PC8221 series features a 1.46 GHz Intel Atom™ with available 120 GB SSD storage. This 21.5" PC operator workstation features an optional touchscreen. The front bezel is rated Type 4/4X.

Connection



Dimensions

Atom™



Technical Data

Hardware	
Processor	Intel® Atom™ E3826 1.46 GHz
RAM	up to 8 GB
Mass storage	120 GB SSD
Supply	
Connection	Terminals
Power consumption	60 W max. 20-30 VDC (Intel® Atom™) 72 W max. 20-30 VDC (Intel® Core™ i7)

Release date: 2023-05-23 Date of issue: 2023-05-23 Filename: t183577_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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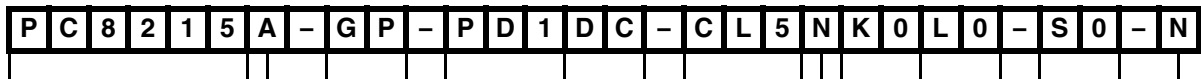
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Technical Data

Indicators/operating means	
Display	
Screen diagonal	21.5 inch (54.6 cm)
Response time	25 ms (standard brightness) 5 ms (high brightness)
Resolution	1920 x 1080 Full HD
Color depth	24 bit (16.7 M) color
Contrast	5000:1 (standard brightness) 900:1 (high brightness)
Brightness	300 cd/m ² (nits) - standard brightness 1200 cd/m ² (nits) - high brightness
Reading angle	89° in all directions (standard brightness) 170° H; 160° V (high brightness)
Life span	back lamp life: 50,000 hrs typical half life
Input devices	
Touchscreen	5-wire resistive 5-wire hardened resistive
Interface	
Interface type	2x GB ethernet, 4x USB, audio, RS232, RS485
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
Software	
Operating system	Windows® 10 IoT Enterprise 2016 LTSC (x 64)
Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	0 ... 90% (noncondensing)
Shock resistance	30g, 11 ms, all axis
Vibration resistance	5 ... 100 Hz 1G, 12 m/s ²
Mechanical specifications	
Degree of protection	Type 4X (stainless steel) Type 4 (painted steel) IP66
Material	Bezel: black painted steel or 316L satinless steel
Installation	panel mount panel cutout: 536 x 358 mm (21.1 x 14.1 inch)
Mass	15.9 kg (35 lb)
Dimensions	572 x 394 x 76 mm (22.5 x 15.5 x 3.0 inch)
Data for application in connection with hazardous areas	
Certificate	DEMKO 12 ATEX 1107369X Ⓜ II 3G Ex nA nC IIC T4 Gc Ⓜ II 3G Ex nA IIC T4 Gc
Certificate	PF15CERTB098X Ⓜ II 3D Ex tc IIIC T85°C Dc ("B1" version only)
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012/A11:2013 EN 60079-15:2010 EN 60079-31:2014 ("B1" version)
IECEx approval	IECEx UL 12.0028X
International approvals	
UL approval	UL Listing (E190294) for Class I Div 2, Groups A, B, C, D Class II Div 2, Groups F, G UL Listing (E185778) for Ordinary Locations

Type Code



- Options**
N No option
- Special accessories**
S0 No special accessories
- Keyboard layout**
L0 No keyboard, no layout
- Keyboard/mouse version**
K0 No keyboard, no mouse
- Keyboard housing**
N No keyboard, no mouse
- Housing version**
CL5 Panel mount, stainless steel (316L/1.4404) bezel
CP5 Panel mount, black painted steel bezel
- Power supply**
DC 24 V DC
- Board specifications**
PI2 Atom E3826, 1.46 GHz, 8 GB RAM, 120 GB SSD, 2x LAN, 4x USB, Windows 10 IoT Enterprise 2016 LTSC (64-bit)
- Protection**
GP Industrial, Non-EX
D2 Class I/Div. 2 A, B, C, D and Class II/Div. 2 F, G
V3 Class I/Div. 2 A, B, C, D; Class II/Div. 2 F, G; ATEX Zone 2; IECEx Zone 2
- Screen type**
A Antiglare glass front, non-touch
R Touch screen, resistive, 5-wire, hardened glass
T Touch screen, resistive, 5-wire
U High-bright display, with touch screen, 5-wire resistive
F High-bright display, non-touch, antiglare
K High-bright display, with touch screen, 5-wire hardened resistive
- PC8215** PC, 15.0" (38.1 cm), XGA (1024 x 768 pixels)
- PC8219** PC, 19.0" (48.26 cm), SXGA (1280 x 1024 pixels)
- PC8221** PC, 21.5" (54.6 cm), Full HD (1920 x 1080 pixels)

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