

Display Unit

DPU1200-J2-22F*



- 10 point multi-touch sensor option allows design of modern user interfaces
- Highly resistant to cleaning agents with stainless steel bezel and seamless glass design
- Design optimized for easy cleanability
- Low-power consumption and heat dissipation due to LED backlight technology

Display Unit



Function

The DPU1200-J2-22F* display unit is an ATEX/IECEx certified, UL listed device intended for use in potentially explosive atmospheres, such as Zones 2/22 and Class I/II, Div. 2, and Class III. Connected to a Pepperl+Fuchs thin client unit or PC unit, the DPU serves as a display with an optional touchscreen. It enables users to perceive the system outputs of the computing unit and to input user data. Five system keys located on the front of the unit allow users to control system functions of the display unit (e. g., brightness control) and the computing unit (e. g., home key). Integrated signal lights on the front keys show selected failure modes in case of a defective component. The display unit is optimized for use with the modular HMI components of the VisuNet GXP product line: TCU1200-* thin client unit, PCU1200-* PC unit, and PSU1200-* power supply unit.

Technical Data

Supply	
Power consumption	average: 22 W at maximum brightness: max. 27 W
Indicators/operating means	
Display	
Type	LC display with LED backlight Optically bonded
Screen diagonal	54.61 cm (21.5 inch)
Resolution	1920x1080 (Full HD) , Aspect ratio 16:9
Color depth	16.7 Mio.
Contrast	5000 (typical)
Brightness	300 cd/m ² (nit)
Reading angle	175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 20 °C (68 °F)
Input devices	
Touchscreen	optional: projective capacitive, 10 finger multi-touch, glove-friendly
Interface	
Interface type	interface v1.0 from Pepperl+Fuchs for computing units from Pepperl+Fuchs Bluetooth v4.0 , communication distance up to 30 m in open terrain (optional) , transmission power : +8 dBm
Transmitter frequency	2.402 ... 2.48 GHz
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only





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

Technical Data

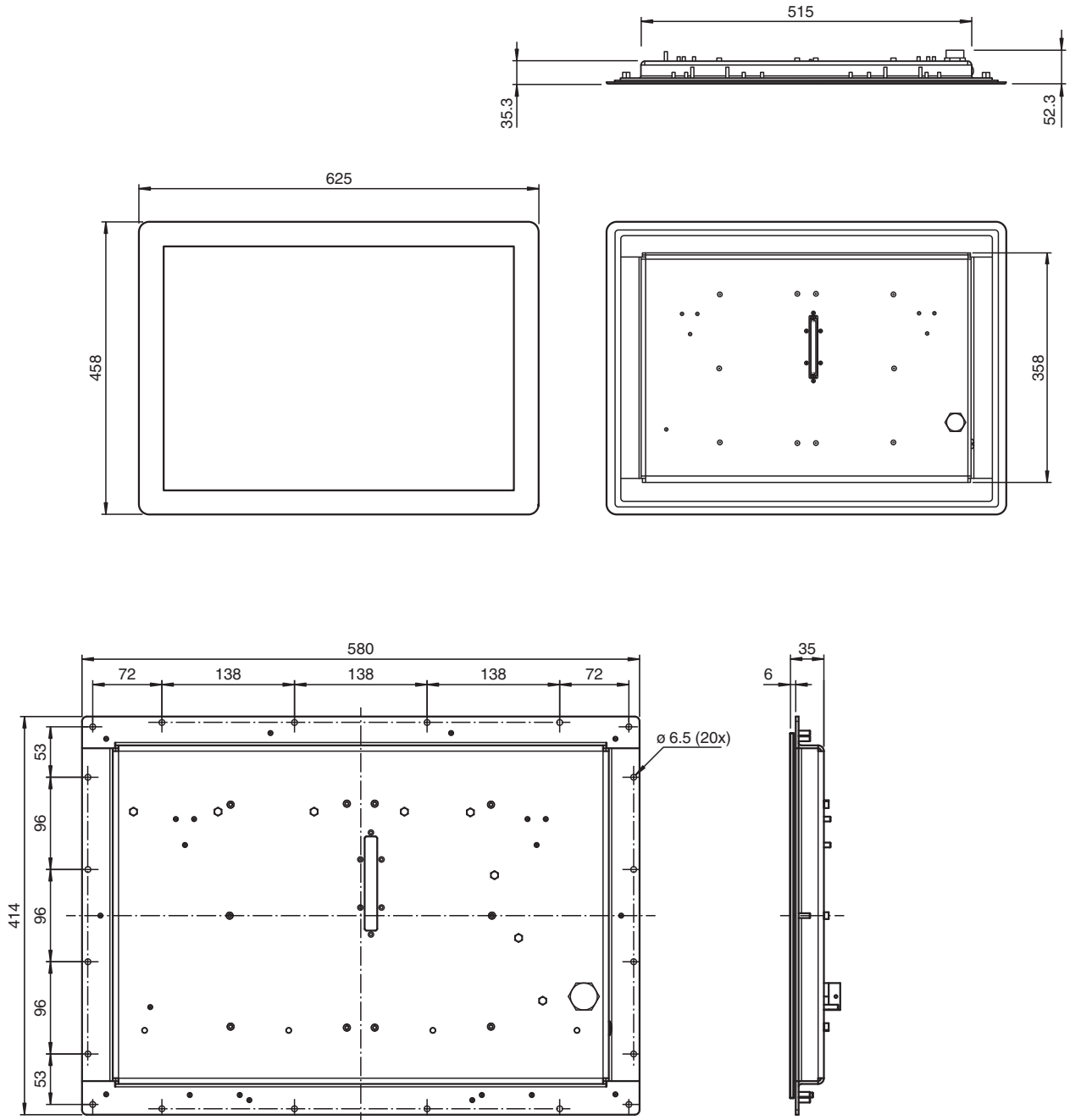
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Ambient conditions	
Operating temperature	0 ... 50 °C (32 ... 122 °F) (normal operation) -20 ... 50 °C (-4 ... 122 °F) (after 1 hour of operation)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN 60068-2-78
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications	
Degree of protection	IP66 (when mounted on the TCU or PCU from Pepperl+Fuchs)
Material	
Surface	front: glass (optional with stainless steel bezel) Back side: powder coated aluminum
Mass	approx. 11 kg
Dimensions	624 mm x 458 mm x 35 mm
Cut out dimensions	583 mm x 417 mm
Data for application in connection with hazardous areas	
EU-type examination certificate	BVS 16 ATEX E 081 X
Marking	⊕ II 3G Ex ec IIC T4 Gc ⊕ II 3D Ex tc IIIC T80 °C Dc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-31:2014
International approvals	
UL approval	E492874
Approved for	Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval	IECEx BVS 16.0061X
Approved for	Ex ec IIC T4 Gc Ex tc IIIC T80 °C Dc
Standards	IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-31:2013

Accessories

	PSU1200-J2-AC-N0	AC Power Supply
	PSU1200-J2-DC-N0	DC Power Supply
	TCU1200-* (Intel (R) Atom Apollo Lake Processor)	Thin Client Unit
	PCU1200-* (Intel (R) Atom Apollo Lake Processor)	Personal Computer Unit

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Dimensions



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pf PEPPERL+FUCHS

Type Code

Product designation	Protection	Display Size	Screen Type	Interface	Mounting Option	Options & Customization
GXP display unit						
DPU1100-	Display unit (platform: zone 1/21; GXP product group, version 0)					
DPU1200-	Display unit (platform: zone 2/22; GXP product group, version 0)					
Protection						
J1-	IECEX and ATEX II 2 GD; Zone 1/21					
J2-	IECEX & ATEX II (2) 3 GD; Zone 2/22					
Display size						
22F	21.5 inch, Full HD (1920 x 1080 pixel)					
19S	19 inch, SXGA (1280 x 1024 pixel)					
Screen type						
EN-	Anti-glare security glass, no touch					
EC-	Anti-glare security glass, projective capacitive 10 finger multitouch					
Interface						
F1-	5x capacitive system front keys					
F2-	5x capacitive system front keys & Bluetooth interface					
Mounting Option						
NN-	No bezel, prepared for flush mounting					
S1-	Bezel; prepared for panel mounting or into GXP Housing (AG-XX00); Stainless steel AISI 304 (1.4301) (21,5 inch display option only)					
S2-	Bezel; prepared for panel mounting or into EX1 Housing (AG1); Stainless steel AISI 304 (1.4301); (19" Display only)					
Options and customization						
N0	Standard V1.0, no options					
N1	Standard V1.1, no options					

Example: DPU1100-J1-22FEC-F1-S1-N0

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