

Direct Monitor - Panel Mount

DM-320P-*



- Optional display variant with optical bonding
- Full HD displays with modern, 10 finger capacitive touchscreen, supporting multi-touch and glove operation
- Global certifications

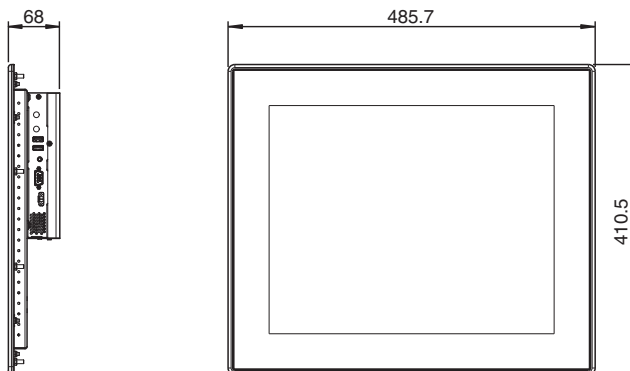
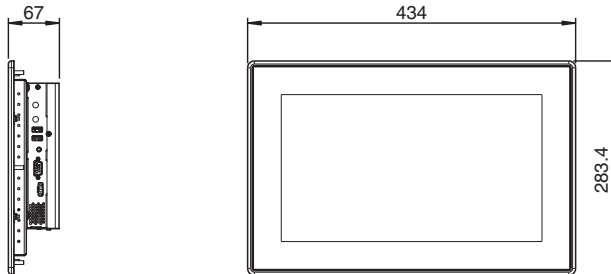
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Function

VisuNet FLX Panels consist of a display unit with touch screen in combination with a computing unit. Various display sizes (21.5", 19" and 15.6") and configurable computer units lead to highest application flexibility. The VisuNet FLX panels are designed for Zone 2/22 (Div. 2) and non-Ex applications. The gap free surface which is available with a typical surface roughness of 0.8 µm and rounded edges of the bezel prevent accumulation of liquids or bacteria. Display and seals are chemically resistant to typical cleaning agents.

Dimensions



Release date: 2022-07-28 Date of issue: 2022-07-28 Filename: t193555_eng.pdf

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

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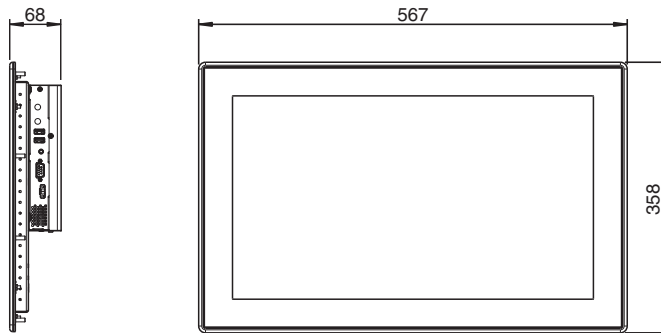
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Dimensions



Technical Data

General specifications	
Type	Direct Monitor
Supply	
Input current	1.5 A
Power consumption	
DC	20 ... 28 V d.c. / 1.5 A (SELV/PELV or class 2) For connections designation refer to the VisuNet FLX Panel Mount manual.
Indicators/operating means	
Display	
Type	Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	Configurable display options: 22GT: 54.61 cm (21.5") [temperature class A] 22FC: 54.61 cm (21.5") (Display might react sluggishly below 0 °C) 19SC: 48.26 cm (19") 15FC: 39.62 cm (15.6")
Resolution	22GT, 22FC, 15FC: 1920 x 1080 pixels (Full HD) Aspect Ratio (16:9) 19SC: 1280 x 1024 pixels (SXGA) Aspect Ratio (5:4)
Color depth	24 bit (16.7 M) color
Contrast	Typically 22GT: 1000:1 22FC: 5000:1 19SC: 1000:1 15FC: 800:1
Brightness	Configurable display options: 22GT: 250 cd/m ² 22FC: 300 cd/m ² 19SC: 450 cd/m ² 15FC: 450 cd/m ²
Reading angle	22GT: 178 ° in all directions 22FC, 19SC: horizontal: 170 °, vertical: 160 ° 15FC: 170 ° in all directions
Life span	22FC, 19SC, 15FC: back lamp life: 50.000 hrs typical half life, at 25 °C (77 °F) 22GT: back lamp life: 30.000 hrs typical half life, at 25 °C (77 °F)
Input devices	
Keyboard	Optional: Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface	
Interface type	1x Power input w/ 3 pin terminal block 1x HDMI 1x DVI-I 1x VGA 1x USB 1x OSD Menu w/ power button
Directive conformity	
Electromagnetic compatibility	

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Directive 2014/30/EU	EN 61326-1:2013 (ind. Locations) EN 61000-6-4:2007+A1:2011 EN 55035:2017/A11:2020 EN 55011:2016+A1:2017
Explosion protection	
Directive 2014/34/EU	EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN 60079-31:2014
RoHS	
Directive 2011/65/EU (RoHS)	EN IEC 63000:2018
Ambient conditions	
Operating temperature	Temperature classes: A: 0 ... 45 °C (32 ... 113 °F) B: -20 ... 55 °C (-4 ... 131 °F) [with wide temperature grade RAM/storage and optically bonded display unit]
Storage temperature	-20 ... 65 °C (-4 ... 149 °F)
Relative humidity	max. relative humidity 93% at 40°C (non-condensing) according to EN60068-2-78
Climatic conditions	Passive cooling, no rotating parts.
Altitude	Operating altitude max. 2000 m
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	Front side: IP66/Type 4X Back side: IP20
Material	Front bezel: Stainless steel AISI304 (glass, silicone gasket) Backside: Painted aluminum sheet metal
Installation	Panel mount (additional mounting kits available)
Mass	22GT, 22FC and 19SC: approx. 8 kg 15FC: 5.4 kg
Dimensions	22 inch: 567 mm x 358 mm x 68 mm 19 inch: 485.7 mm x 410.5 mm x 68 mm 15 inch: 434 mm x 283.4 mm x 67 mm For cut out dimensions refer to the VisuNet FLX Panel mount manual.
International approvals	
UL approval	
Approved for	<p>UL OrdLoc UL approval E223772 UL61010-1 Ed.3 UL 61010-2-201 Ed2 CAN/CSA C22.2 No 61010-1-12 CAN/CSA C22.2 No 61010-2-201</p> <p>UL HazLoc UL approval E492874</p> <p>IS circuits for CL I, DIV 2, GP A-D CL II, DIV 2, GP E, F, G CL III IS circuits for CL I, ZN 2, IIC CL II, ZN 22, IIIB CL III, ZN 22, IIIA Install per drawing 116-0478</p> <p>Mounting in CL I, DIV 2, GP A-D, T4 CL II, DIV 2, GP E, F, G CL III Mounting in CL I, ZN 2, IIC, T4 CL II, ZN 22, IIIB CL III, ZN 22, IIIA</p>
ATEX approval	
ATEX certificate	UL 22 ATEX 2479X
ATEX marking	II 3 G Ex ec IIC T4 Gc
ATEX certificate	UL 22 ATEX 2480U
ATEX marking	II 3D Ex tc IIIC Dc
IECEx approval	

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Technical Data

IECEX certificate		IECEX ULD 22.0017X
IECEX marking		Ex ec [ic] IIC T4 Gc
IECEX certificate		IECEX ULD 22.0018U
IECEX marking		Ex tc [ic] IIIC Dc
IECEX standard		IEC 60079-0:2017 Ed 7.0 IEC 60079-7:2017 Ed 5.1 IEC 60079-31:2013 Ed. 2

Accessories

	DPU3200-19SC-304A-V1-N0	Display Unit
	DPU3200-15FC-304A-V1-N0	Display Unit
	BPC3200-N*	Industrial Box PC
	DMU3200-*	Direct Monitor Unit
	DPU3200-22GT-304A-V1-N0	Display Unit
	DPU3200-22FC-304A-V1-N0	Display Unit
	Mounting Options	Mounting options for the VisuNet FLX Panel Mount

Type Code

DM-320P-*

Model	Ex protection	Temperature	Display unit	Power supply unit	Computing platform	OS & software	Housing	Options
Model								
DM-320P-	Direct Monitor - "Panel PC"							
Ex protection								
N	Industrial, general purpose (UL Ord Loc Listed for US & Canada)							
L	ATEX & IECEx Zone 2/22 and Class I, II, III Div 2							
Temperature								
A-	0 ... 45 °C							
B-	-20 ... 55 °C							
Display unit								
22GT-	21.5 " (16:9), Full HD (1920 x 1080), capacitive touch, no optical bonding							
22FC-	21.5 " (16:9), Full HD (1920 x 1080), capacitive touch, optical bonding							
19SC-	19.0" SXGA (1280 x 1024), capacitive touch, optical bonding							
15FC-	15.6" (16:9), Full HD (1920 x 1080), capacitive touch, optical bonding							
Power supply unit								
D-	24 V DC							
Computing platform								
VNNNN	DMU - Video interfaces: display port, DVI, VGA							
Housing								
S1-	Stainless steel bezel SS304, prepared for panel mounting							
Options								
NNO	Standard							

Example: DM-320P-NB-22GT-D-VNNNNS1-NN0