

Direct Monitor - Panel Mount

VisuNet FLX

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

Direct Monitor - Panel Mount

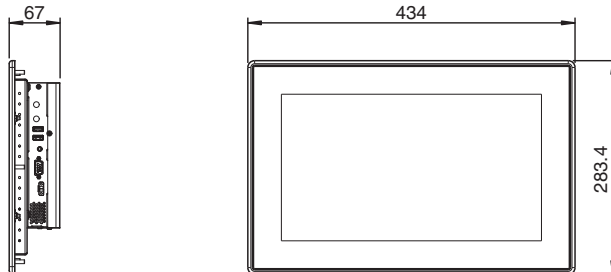


Function

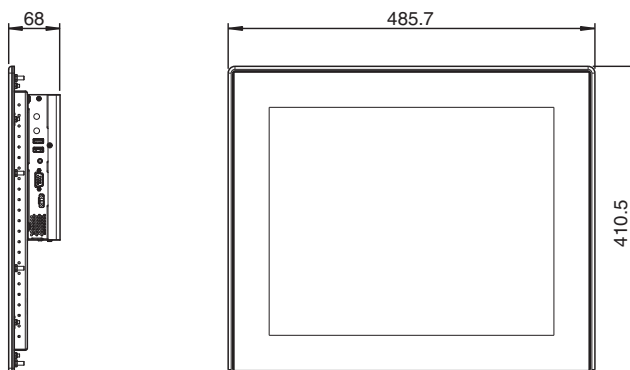
VisuNet FLX Panels consist of a display unit with touch screen in combination with a computing unit. Various display sizes (21.5", 19" and 15.6") and configurable computer units lead to highest application flexibility. The VisuNet FLX panels are designed for Zone 2/22 (Div. 2) and non-Ex applications. 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

15.6" Display

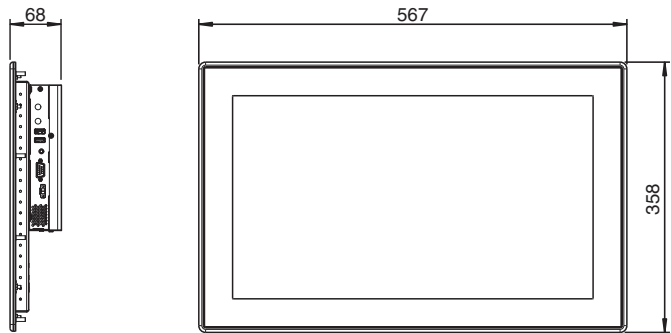


19" Display



Dimensions

21.5" Display



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 size	Configurable display options: 22KT, 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		22KT, 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 ratio		Typically 22KT, 22GT: 1000:1 22FC: 5000:1 19SC: 1000:1 15FC: 800:1
Brightness	Configurable display options: 22KT, 22GT: 250 cd/m2 22FC: 300 cd/m2 19SC: 450 cd/m2 15FC: 450 cd/m2	
Viewing angle		22KT, 22GT: 178 ° in all directions 22FC, 19SC: horizontal: 170 °, vertical: 160 ° 15FC: 170 ° in all directions
Life span	22KT, 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		
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

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Technical Data

Explosion protection		
Directive 2014/34/EU		EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN IEC 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		22KT, 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		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 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 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
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		
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

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IECEx standard	IEC 60079-0:2017 Ed 7.0 IEC 60079-7:2017 Ed 5.1 IEC 60079-31:2013 Ed. 2
CCC approval	
CCC certificate	2023322309005727
CCC marking	Ex ec IIC T4 Gc Ex tc IIIC Dc
CCC standard	GB 3836.1-2021 GB/T 3836.3-2021 GB/T 3836.31-2021

Type Code

DM-320P-*

DM-320P-	(1)	(2)-	(3)-	(4)-	(5)	(6)-	(7)
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Model

DM-320P-	Direct Monitor - "Panel PC"
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(1) Explosion 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

(2)- Temperature

A-	0 ... 45 °C
B-	20 ... 55 °C

(3)- Display unit

22KT-	21.5 " (16:9), Full HD (1920 x 1080), capacitive touch, no optical bonding
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

(4)- Power supply unit

D-	24 V DC
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(5) Computing platform

VNNNN	DMU - Video interfaces: DisplayPort, DVI, VGA - standard option
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(6)- Housing

S1-	Stainless steel bezel SS304, prepared for panel mounting
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(7) Options

NN0	Standard
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Example:

DM-320P-	N	A-	22FC-	D-	VNNNN	S1-	NN0
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