6AV7466-5MA01-0AA0

**Data sheet** 

SIMATIC IFP1500 PRO Full HD Flat Panel 15" display (16:9), multi-touch, Full HD resolution, prepared for supporting foot/ expansion elements; 1920 x 1080 pixels, for 24 V DC, display port, IP65, fully enclosed, Ethernet monitor with basic adapter



General information	
Product type designation	IFP1500 PRO HD
Short designation	Flat Panel 15" PRO Full HD multi-touch Ethernet monitor
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	15.6 in
Screen diagonal [cm]	40 cm
Display width	344.2 mm
Display height	193.5 mm
On Screen Display (OSD) configuration	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit
Viewing angle	160° x 140°
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	1 920 pixel
<ul> <li>Vertical image resolution</li> </ul>	1 080 pixel
<ul> <li>Pixel size, horizontal</li> </ul>	0.17925 mm
Pixel size, vertical	0.17925 mm
General features	
<ul> <li>Brightness/contrast</li> </ul>	400 cd/m² / 700:1
<ul> <li>non-reflective and tempered mineral glass screen</li> </ul>	Yes
<ul> <li>Detachable from computer unit</li> </ul>	100 m; Ethernet
Luminance	400 cd/m <sup>2</sup>
Backlighting	
<ul> <li>Type of backlighting</li> </ul>	LED
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h; At 25°C
<ul> <li>Backlight dimmable</li> </ul>	Yes; 0-100 %
Control elements	
Input device	
<ul> <li>Integrated mouse cursor control</li> </ul>	Yes; Also externally via USB
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes
<ul> <li>Design as multi-touch screen</li> </ul>	Yes; Projective-capacitive
<ul> <li>Monitor keyboard</li> </ul>	Yes
Installation type/mounting	
Design	Pedestal mounting
Front mounting	No
Support arm mounting	No
Stand mounting	Yes
VESA mounting	No

Butthrunt maximum permitted forward tilt angle from vertical maximum permitted forward tilt angle from vertical specific supply voltage  Type of suppl	Built-in unit	No: IDSS fully enclosed
maximum permitted backward till angle from vertical  Stuppty voltage  Type of suppty voltage  Power loss of prover loss, by power loss, by po		· ·
Supply voltage Type of		
Type of supply voltage		40
Raded value (DC) permissible range, lower limit (DC) power loss    Power loss		DC
Deminsable range, lower limit (DC)		
Deminsibility range, upper limit (DC)   28.8 V		
Power loss, typ.		
Power loss, typ.   25 W   Power loss, max   30 W   Interfaces   1. Ethernet. 1 port, R,445   SUSB on the rear   Yes; 2x onboard   USB   USB on the rear   Yes; 2x onboard   USB   USB   Other loss   USB   Other loss   USB   Other loss   USB		28.8 V
Power loss, max.		
Interfaces		
Number of industrial Ethernet interfaces		30 W
USB on the rear Connection for keyboard/mouse USB Viceo interfaces  • DVI-D • DisplayPort Ves; DisplayPort V1.1  Touch interfaces • USB Ves Degree and class of protection IP (at the front) • IP (ear) • Enclosure Type 4 at the front • Yes  Standards, approvals, certificates  CE mark  Ves  Ves  UL approval • Yes: In application process  UL approval • No • EAC (formerly Gost-R) • Yes: In application process  Use in hazardous areas • ATEX Zone 2 • ANO • Anterican Bureau of Shipping (ABS) • No • Bureau Veritas (BV) • No • Deat Norsk Veritas (DNV) • No • Deat Norsk Veritas (DNV) • No • Deat Norsk Veritas (DNV) • No • No • Polsk Register of Shipping (LRS) • No • No • Polsk Register of Shipping (LRS) • No • Polsk Register of Shipping (LRS) • No • No • Polsk Register of Shipping (LRS) • No • Or C • Text Canada • Text Canada • Tex		
Connection for keyboard/mouse  Video interfaces  • DVI-D • DisplayPort • Yes; DisplayPort V1.1  Touch interfaces • USB • USB • USB • USB • Ves  Degree and class of protection  IP (at the front) • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • In application process • ULL us • Yes; In application process • Ves; In application process • No • ATEX Zone 2 • ATEX Zone 2 • No • Armicas Ibrivision 2 • No • American Bureau of Shipping (ABS) • No • American Bureau of Shipping (ABS) • No • Bureau Veritas (BV) • Oe Not Norske Veritas (DNY) • Lioyds Register of Shipping (LRS) • No • Polski Rejestr Station (PRS) • No • No • Polski Rejestr		
DVI-D		
DISPLAYOR DISPLAY DIS		USB
● DisplayPort Yes; DisplayPort V1.1  Touch interfaces  ● USB Yes  Degree and class of protection  IP (at the front) IP (at the front)  ■ Enclosure Type 4 at the front Yes  Enclosure Type 4 at the front Yes  Standards, approvals, cortificates  CE mark Yes; In application process  UL approval Yes; In application process  CCM (fromerly C-TICK) Yes; In application process  RCM (fromerly C-TICK) Yes; In application process  RCM (fromerly C-STER) Yes; In application process  We in hazardous areas  ● ATEX Zone 2 No  ■ ATEX Gerna Bureau of Shipping (ABS) No  ■ American Bureau of Shipping (ABS) No  ■ American Bureau of Shipping (LRS) No  ■ Dist Norske Vertias (DNV) No  ■ Lloyds Register of Shipping (LRS) No  ■ No  Ambient conditions  Ambient temperature during operation  ■ min.  ■ max.  ■ 60 °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  ■ min.  ■ max.  ■ 60 °C  Relative humidity  ■ Operation, max.  Vibrations  ■ Vibration load during transport/storage  Shock testing		
USB Yes  Ogree and class of protection  IP (at the front)	• DVI-D	
● USB		Yes; DisplayPort V1.1
Degree and class of protection  IP (at the front) IP (at the front) IP (rear) IP (rear		
		Yes
IP (rear)  NEMA (front)  Enclosure Type 4 at the front  Enclosure Type 4x at the front  Enclosure Type 4x at the front  Enclosure Type 4x at the front  Yes  Standards, approvals, certificates  CE mark  UL approval  Ves; In application process  RCM (fromerly C-TICK)  Yes; In application process  RCM (fromerly C-TICK)  Yes; In application process  RCM (fromerly Gost-R)  Ves; In application process  No  EAC (fromerly Gost-R)  No  EAC (fromerly Gost-R)  No  ATEX Zone 2  FM Class I Division 2  No  ATEX Zone 22  FM (No  American Bureau of Shipping (ABS)  Deureau Veritas (BV)  Det Norske Veritas (DNV)  Det Norske Veritas (DNV)  Lloyds Register of Shipping (LRS)  No  No  Ambient conditions  Ambient temperature during operation  min.  min.  min.  0 °C  max.  Ambient temperature during storage/transportation  min.  min.  min.  20 °C  Relative humidity  Operation, max.  95 %  Vibrations  Vibration load in operation  Vibration load in operation  Vibration of Vibration load diring transport/storage  Shock testing		
NEMA (front)  • Enclosure Type 4 at the front  Yes  Standards, approvals, certificates  CE mark  UL approval  Ves; In application process  CLULUS  RCA (formerly C-TICK)  Yes; In application process  RCM (formerly C-TICK)  Yes; In application process  RCA approval  No  EAC (formerly Gost-R)  Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 2  • AND  • ATEX Zone 22  • FM Class I Division 2  No  Martine approval  • Germanischer Lloyd (GL)  • American Bureau of Shipping (ABS)  • Bureau Veritas (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  • Nippon Kajii Kyokai (Class NK)  • Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation  • min.  • max.  50 °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Relative humidity  • Operation, max.  95 %  Vibrations  • Vibration load in operation  • Vibration load in operation  • Vibration load during transport/storage  Shock testing		
Enclosure Type 4 at the front Yes  Enclosure Type 4x at the front Yes  Standards, approvals, certificates  CE mark  Ves  UL approval Yes; In application process CULus Yes; In application process CULus Yes; In application process RCM (formerly C-TICK) Yes; In application process RCAM (formerly Gost-R) Yes; In application process  KC approval No  EAC (formerly Gost-R) Yes; In application process  Wes In application process  ATEX Zone 2 No  ATEX Zone 22 No  ATEX Zone 22 No  ATEX Sone 22 No  AMERICA SI Division 2  Marine approval  Cermanischer Lloyd (GL) American Bureau of Shipping (ABS) No  Bureau Veritas (BV) Det Norske Veritas (DNV) Det Norske Veritas (DNV) Det Norske Veritas (DNV) No  Det Norske Veritas (DNV) No		IP65
Enclosure Type 4x at the front  Standards, approvals, certificates  CE mark  UL approval  UL approval  Ves; In application process  CULus  RCM (formerly C-TICK)  KC approval  EAC (formerly Gost-R)  Use in hazardous areas  ATEX Zone 2  Anerican Bureau of Shipping (ABS)  Bureau Veritas (BV)  Det Norske Veritas (DNV)  Ludyds Register of Shipping (LRS)  No  No  Anbient conditions  Ambient temperature during operation  min.  max.  Ambient temperature during storage/transportation  min.  max.  Arbient temperature during storage/transportation  min.  max.  Co C  max.  Relative humidity  Operation, max.  95 %  Vibration load during transport/storage  Shock testing  Yes  Yes  In application process  Yes; In application process  No  No  No  No  No  No  ANE  ATEX Zone 2  No  No  No  No  No  No  No  O C  C  O C  O C  O C  O C  O C  O C	NEMA (front)	
Standards, approvals, certificates  CE mark  UL approval  UL approval  CULus  Yes; In application process  CULus  RCM (formerly C-TICK)  Yes; In application process  RCM (formerly C-TICK)  Yes; In application process  RCA (formerly Gost-R)  Ves; In application process  RCA (formerly Gost-R)  Ves; In application process  Lac (formerly Gost-R)  Ves; In application process  ATEX Zone 2  ATEX Zone 2  ATEX Zone 2  ATEX Zone 2  ATEX Jone 3  ATEX Jon		Yes
CE mark  UL approval  Ves; In application process  CULus  RCM (formerly C-TICK)  Yes; In application process  RCM (formerly C-TICK)  Yes; In application process  KC approval  No  EAC (formerly Gost-R)  Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 2  • FM Class I Division 2  No  American Bureau of Shipping (ABS)  • Bureau Vertias (BV)  • Det Norske Veritas (DNV)  • Lioyds Register of Shipping (LRS)  • Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • Operation, max.  95 %  Vibrations  • Vibration load in operation  • Vibration load in operation  • Vibration load in operation  • Vibration load during transport/storage  Shock testing	Enclosure Type 4x at the front	Yes
UL approval cULus Yes; In application process RCM (formerly C-TiCK) Yes; In application process RCM (formerly C-TiCK) Yes; In application process KC approval No EAC (formerly Gost-R) Use in hazardous areas  • ATEX Zone 2 • ATEX Zone 2 • ATEX Zone 2 • FM Class I Division 2 No Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) No  Ambient conditions  Ambient temperature during operation • min. • max. 50 °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Operation, max.  95 %  Vibration load in operation • Vibration load in operation • Vibration load in operation • Vibration load during transport/storage Shock testing	Standards, approvals, certificates	
CULus Yes; In application process RCM (formerly C-TICK) Yes; In application process KC approval No EAC (formerly Gost-R) Yes; In application process Use in hazardous areas  • ATEX Zone 2 • ATEX Zone 22 • FM Class I Division 2  Marine approval  • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation • min. • max.  Ambient temperature during storage/transportation • min. • max. • 60 °C Relative humidity • Operation, max.  • Vibration load in operation • Vibration load in operation • Vibration load during transport/storage Shock testing	CE mark	Yes
RCM (formerly C-TICK)  KC approval  KC approval  EAC (formerly Gost-R)  Use in hazardous areas  • ATEX Zone 2 • ATEX Zone 22 • ATEX Zone 22 • FM Class I Division 2  Marine approval  • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation • min. • max.  Ambient temperature during storage/transportation • min. • max.  Ambient temperature during storage/transportation • min. • max.  Ambient temperature during storage/transportation • min. • max. • O°C Relative humidity • Operation, max.  • Vibration load in operation • Vibration load during transport/storage  Shock testing	UL approval	Yes; In application process
KC approval  EAC (formerly Gost-R)  Use in hazardous areas  • ATEX Zone 2 • ATEX Zone 22 • FM Class I Division 2  Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation • min. • max. • max. • 60 °C  Relative humidity • Operation, max.  • Vibration load in operation • Vibration load during transport/storage  No  No  Yes; In application process  No  No  No  No  O °C  O	cULus	Yes; In application process
EAC (formerly Gost-R)  Use in hazardous areas  • ATEX Zone 2 • ATEX Zone 22 • FM Class I Division 2  Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • No • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation • min. • max. • max.  Abient temperature during storage/transportation • min. • max. • 60 °C  Relative humidity • Operation, max.  • Vibration load in operation • Vibration load during transport/storage  Shock testing		Yes; In application process
Use in hazardous areas  ATEX Zone 2 ATEX Zone 2 FM Class I Division 2  Marine approval  Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No No Nippon Kajij Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation  min. max.  So °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  min. max.  Abo °C  Relative humidity Operation, max.  Vibrations  Vibration load during transport/storage  No No No On		
ATEX Zone 2 ATEX Zone 22 FM Class I Division 2  Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation min. max.  So °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation min. max.  Ambient temperature during storage/transportation  min.  Polacki (Class NK) No O °C C C Relative humidity Operation, max.  95 %  Vibration load in operation Vibration load during transport/storage  No	EAC (formerly Gost-R)	Yes; In application process
ATEX Zone 22 FM Class I Division 2  Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No		
FM Class I Division 2  Marine approval  Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No Polski Rejestr Statkow (PRS) No  Ambient conditions  Ambient temperature during operation min.		No
Marine approval  Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No No No Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) No  Ambient conditions  Ambient temperature during operation min. O°C max. So°C; Vertical installation (horizontal)  Ambient temperature during storage/transportation min. O°C  max. So°C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  min. O°C  Relative humidity Operation, max. So°C  Vibrations Vibrations Vibration load in operation No		No
Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No		No
<ul> <li>American Bureau of Shipping (ABS)</li> <li>Bureau Veritas (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>No</li> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul> Ambient conditions Ambient temperature during operation <ul> <li>min.</li> <li>max.</li> <li>max.</li> <li>50 °C; Vertical installation (horizontal)</li> </ul> Ambient temperature during storage/transportation <ul> <li>min.</li> <li>e min.</li> <li>e max.</li> </ul> 60 °C Relative humidity <ul> <li>Operation, max.</li> <li>Vibrations</li> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul> No <ul> <li>No</li> </ul>	·	
Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation  min. 0°C max. 50°C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  min. culor conditions  of conditions  To max.  No Conditions  No Conditions  To max.  No Conditions  No C		
<ul> <li>Det Norske Veritas (DNV)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul> Ambient conditions Ambient temperature during operation <ul> <li>min.</li> <li>o °C</li> <li>max.</li> <li>fo °C; Vertical installation (horizontal)</li> </ul> Ambient temperature during storage/transportation <ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> </ul> Relative humidity <ul> <li>Operation, max.</li> <li>Vibrations</li> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul>		
Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) No  Ambient conditions  Ambient temperature during operation  min. min. max.  So °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  min. min. min. min. min. min. min. mi		
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul> Ambient conditions Ambient temperature during operation <ul> <li>min.</li> <li>max.</li> <li>max.</li> <li>50 °C; Vertical installation (horizontal)</li> </ul> Ambient temperature during storage/transportation <ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> </ul> Relative humidity <ul> <li>Operation, max.</li> <li>Vibrations</li> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul> No <ul> <li>No</li> </ul> On <ul> <li>No</li> </ul> Shock testing <ul> <li>No</li> </ul> No <ul> <li>No</li> </ul> On <ul> <li>No</li> </ul> Shock testing <ul> <li>No</li> </ul> No <ul> <li>No</li> </ul> On <ul> <li>No</li> </ul> Shock testing <ul> <li>No</li> </ul> No <ul> <li>No</li> </ul> Shock testing <ul> <li>No</li> </ul> No <ul> <li>No</li> </ul> Shock testing <ul> <li>No</li> </ul> No <ul> <li>No</li> </ul> Shock testing <ul> <li>No</li> </ul> No <ul> <li>No</li> </ul> Relative humidity <ul> <li>No</li> </ul> No <ul> <li>N</li></ul>		
<ul> <li>Polski Rejestr Statkow (PRS)</li> <li>Ambient conditions</li> <li>Ambient temperature during operation</li> <li>min.</li> <li>max.</li> <li>50 °C; Vertical installation (horizontal)</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>Vibrations</li> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul>		
Ambient conditions  Ambient temperature during operation  • min.  • max.  50 °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  • min.  • min.  • 20 °C  • max.  60 °C  Relative humidity  • Operation, max.  95 %  Vibrations  • Vibration load in operation  • Vibration load during transport/storage  Shock testing		
Ambient temperature during operation  • min.  • max.  50 °C; Vertical installation (horizontal)  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Relative humidity  • Operation, max.  95 %  Vibrations  • Vibration load in operation  • Vibration load during transport/storage  Shock testing		No
<ul> <li>min.</li> <li>max.</li> <li>50 °C; Vertical installation (horizontal)</li> </ul> Ambient temperature during storage/transportation <ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> </ul> Relative humidity <ul> <li>Operation, max.</li> <li>95 %</li> </ul> Vibrations <ul> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul> Shock testing <ul> <li>10 m/s²</li> <li>10 m/s²</li> </ul> Shock testing	Ambient conditions	
<ul> <li>max.</li> <li>50 °C; Vertical installation (horizontal)</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>95 %</li> <li>Vibrations</li> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul>	Ambient temperature during operation	
Ambient temperature during storage/transportation  • min.  • max.  • max.  • 00 °C  Relative humidity  • Operation, max.  95 %  Vibrations  • Vibration load in operation  • Vibration load during transport/storage  Shock testing	• min.	0 °C
<ul> <li>min.</li> <li>max.</li> <li>60 °C</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>Vibrations</li> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul>		50 °C; Vertical installation (horizontal)
<ul> <li>max.</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>Vibrations</li> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul>		
Relative humidity  • Operation, max.  95 %  Vibrations  • Vibration load in operation  • Vibration load during transport/storage  10 m/s²  Shock testing	• min.	
Operation, max.      Vibrations      Vibration load in operation		60 °C
Vibrations         ◆ Vibration load in operation       10 m/s²         ◆ Vibration load during transport/storage       10 m/s²         Shock testing       10 m/s²	•	
<ul> <li>Vibration load in operation</li> <li>Vibration load during transport/storage</li> <li>Shock testing</li> </ul>		95 %
◆ Vibration load during transport/storage     Shock testing		
Shock testing		
		10 m/s²
• Shock load during operation 150 m/s²	_	
	<ul> <li>Shock load during operation</li> </ul>	150 m/s²

<ul> <li>shock acceleration during storage/transport</li> </ul>	150 m/s²
Mechanics/material	
Enclosure material (front)	
• Glass	Yes; at front
Dimensions	
Width	396 mm
Height	255 mm; Without basic adapter
Depth	101 mm; Without basic adapter
Weights	
Weight (without packaging)	4 kg
Weight (with packaging)	6 kg

last modified: 11/2/2021 🖸