Data sheet

SIMATIC IFP1500 V2, 15" multi-touch display (16:9) with 1920x1080 pixel resolution, built-in unit, for 24 V DC, display port/DVI interface, including DP/USB cable 1.8 m, on the rear USB, neutral design



Figure similar

General information	IED LEGGLIO
Product type designation	IFP1500 V2
Short designation	Flat Panel 15" multi-touch
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	15.6 in; 15"
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	178° x 178°
Resolution (pixels)	
 Image resolution 	1 920 x 1 080
 Horizontal image resolution 	1 920 pixel
 Vertical image resolution 	1 080 pixel
 Pixel size, horizontal 	0.17925 mm
Pixel size, vertical	0.17925 mm
General features	
 Brightness/contrast 	400 cd/m² / 700:1
 non-reflective and tempered mineral glass screen 	Yes
 Detachable from computer unit 	5 m
Luminance	400 cd/m ²
Backlighting	
 Type of backlighting 	LED
 MTBF backlighting (at 25 °C) 	50 000 h; At 25°C
Backlight dimmable	Yes; 0-100 %
Control elements	
Control elements	multi-touch screen
Input device	
 Integrated mouse cursor control 	Yes
Touch operation	
Design as touch screen	Yes; Projective-capacitive
Design as multi-touch screen	Yes; Projective-capacitive
Monitor keyboard	Yes; If supported by operating system
Installation type/mounting	
Design	Built-in unit
Front mounting	Yes
VESA mounting	Yes; VESA 100 x 100 integrated

Mounting in protein format possible Yes	Mounting in portrait format possible	Vos
Bullin unit		
maximum permitted forward til angle from vertical 38°		
Transfer Start S		
Supply voltage		
Type of supply voltage		35*
Rated value (DC)		DO.
Demissible range, Lower limit (DC) Exercise 19.2 V		
permissible range, upper limit (DC) 28.8 V		-
Input current		
Current consumption (rated value)		28.8 V
Current consumption, max.		
Starting current inrush Pt	· · · · · · · · · · · · · · · · · · ·	
Power loss Interfaces 24 W		
Power loss, ttp. 24 W Power loss, max. 30 W Interfaces	<u> </u>	0.5 A ² ·s
Power loss, max. 30 W	Power loss	
Number of USB interfaces	Power loss, typ.	24 W
Number of USB interfaces	Power loss, max.	30 W
USB on the rear Connection for keyboard/mouse USB □ DV-D □ DisplayPort □ USB □ DisplayPort □ P(st the front) □ P(at the front)	Interfaces	
Connection for keyboard/mouse Video interfaces • DVI-D • DisplayPort Touch interfaces • USB Yes Dagroa and class of protection IP (at the front) • Enclosure Type 4 at the front • Yes Cartificate of suitability • Laradrous zone 2/22; shipbuilding • Yes Cutus, cULL cutus • Yes Cutus, cULL cutus • Yes Clus, cULL cutus • Yes ENC • CE, EN 55011, EN 61000-6-4, EN 61000-6-2 • ENC • ATEX Zone 2 • Yes • ATEX Zone 22 • Yes • IECEX Zone 22 • Yes • IECEX Zone 22 • Yes • IECEX Zone 22 • Yes • ENC American Bureau of Shipping (ABS) • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Morske Verlas (DNV) • Lloyds Register of Shipping (LRS) • Ves • Upton Marine approval • Commanischer Lloyd (GL) • American Bureau of Shipping (LRS) • Upton Marine Appliny (Als) • Upton Marine Appliny (Als) • Upton Marine Appliny (Als) • Popen Angli Kyokai (Class NK) Amblent conditions Amblent conditions Amblent conditions Amblent conditions	Number of USB interfaces	
DVI-D	USB on the rear	Yes; 2x onboard
● DVI-D Yes; Display Port V1.2 □ DisplayPort Yes; Display port V1.2 □ USB Yes □ USB Yes □ USB Yes □ USB Yes □ UP20 NEMA (front) □ IP65 □ IP (ear) □ IP20 NEMA (front) ← Enclosure Type 4 at the front Yes □ Enclosure Type 4 at the front Yes □ Enclosure Type 12 at the front Yes □ Enclosure Type 4x at the front Yes □ Enclosur	Connection for keyboard/mouse	USB
■ DisplayPort Yes; Display port V1.2	Video interfaces	
Touch interfaces USB Yes	• DVI-D	Yes
● USB Degree and class of protection IP (at the front) IP (trear) ■ IP20 NEMA (front) ■ Enclosure Type 4 at the front ● Enclosure Type 4 x at the front ● Enclosure Type 4 x at the front ● Enclosure Type 12 at the front ▼es Standards, approvals, certificates Certificate of suitability CE mark UL approval CE mark Ves FM approval Yes; CULus, CUL CULus FM approval Yes; Cluss 1 Div. 2 RCM (formerly C-TICK) Yes EAC (formerly Gost-R) EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas ● ATEX Zone 2 ● ATEX Zone 2 ● IECEx Zone 2 ● IECEx Zone 2 ● IECEx Zone 22 ● FM Class 1 Division 2 Marine approval ● Germanischer Lloyd (GL) ● American Bureau of Shipping (ABS) ● Bureau Veritas (GNV) Pes Ambient conditions Ambient conditions Ambient temperature during operation ● min. ● Inin. ● min. ● Tin. ● Tin. ● Tin. ● Tin. ■	 DisplayPort 	Yes; Display port V1.2
Degree and class of protection	Touch interfaces	
IP (at the front)	• USB	Yes
IP (rear)	Degree and class of protection	
NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 12 at the front • Enclosure Type 4 at the front • Enclosure	IP (at the front)	IP65
Enclosure Type 4 at the front Enclosure Type 4x at the front Enclosure Type 12 at the front Enclosure Type 12 at the front Yes Standards, approvals, certificates Certificate of suitability Definition CE mark Ves UL approval Ves; CULus, CUL CULus Yes HM approval Yes; Class I Div. 2 RCM (formerly C-TICK) Yes EAC (formerly Gost-R) EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas ATEX Zone 2 FM Caps C2 FM Class I Division 2 No Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Ambient conditions Ambient temperature during operation imin. O °C imin. o max. Marine approval O CC In C	IP (rear)	IP20
• Enclosure Type 4x at the front • Enclosure Type 12 at the front Yes Standards, approvals, certificates Certificate of suitability Approval CE mark Ves UL approval UL approval CULus Yes FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas • ATEX Zone 2 • ATEX Zone 2 • IECEx Zone 2 • IECEx 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) • Nimo • min.	NEMA (front)	
• Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark Yes UL approval Ves; Culus, cUL cUlus Yes FM approval Yes; Class I Div. 2 RCM (formerly C-TICK) EAC (formerly Gost-R) EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • ECECEx Zone 22 • ECECEx Zone 2 • ECECEx Zone 2 • ECECEx 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) • Nippon Kaiji Kyokai (Class NK) Ambient temperature during operation • min. • max. • O °C • max.	- Englasura Tuna 4 -4 th - for-st	Yes
Standards, approvals, certificates Certificate of suitability CE mark Yes UL approval Yes; CULus, CUL CULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx 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 Kaij Kyokai (Class NK) Ambient temperature during operation • min. • max. • O °C • max. Yes • CLus, CULus, CUL Yes CLus, CULus, CUL Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Ves Yes • Loyds Register of Shipping (ABS) Yes • Sureau Veritas (BV) • Det Norske Veritas (DNV) • Ves • Nippon Kaij Kyokai (Class NK) Ambient temperature during operation • min. • max. • O °C • min. • max.	 Enclosure Type 4 at the front 	100
Cettificate of suitability CE mark Yes UL approval Yes; CULus, CUL CULus Yes FM approval Yes; Class I Div. 2 RCM (formerly C-TICK) Yes EAC (formerly Gost-R) EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas • ATEX Zone 2 • ATEX Zone 2 • IECEx Zone 2 • IECEx Zone 2 • IECEx 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) Ambient conditions Ambient temperature during operation • min. • max. • max.	**	
CE mark Yes UL approval Yes; cULus, cUL cULus Yes FM approval Yes; Class I Div. 2 RCM (formerly C-TICK) Yes EAC (formerly Gost-R) Yes EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas Yes • ATEX Zone 2 Yes • IECEX Zone 22 Yes • IECEX Zone 22 Yes • FM Class I Division 2 No Marine approval Segmanischer Lloyd (GL) Yes • American Bureau of Shipping (ABS) Yes • Bureau Veritas (BV) Yes • Lloyds Register of Shipping (LRS) Yes • Nippon Kaiji Kyokai (Class NK) Yes Ambient conditions Ambient conditions Ambient temperature during operation or C • max. 50 °C	• Enclosure Type 4x at the front	Yes
UL approval Yes; cULus, cUL cULus Yes FM approval Yes; Class I Div. 2 RCM (formerly C-TICK) Yes EAC (formerly Gost-R) Yes EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas • ATEX Zone 2 Yes • ATEX Zone 22 Yes • IECEX Zone 22 Yes • IECEX Zone 22 Yes • IECEX Zone 22 Yes • FM Class I Division 2 No Marine approval • Germanischer Lloyd (GL) Yes • American Bureau of Shipping (ABS) Yes • Bureau Veritas (BV) Yes • Lloyds Register of Shipping (LRS) Yes • Nippon Kaiji Kyokai (Class NK) Yes Ambient conditions Ambient temperature during operation • min. 0 °C • max. 50 °C	Enclosure Type 4x at the frontEnclosure Type 12 at the front	Yes
cULUS Yes FM approval Yes; Class I Div. 2 RCM (formerly C-TICK) Yes EAC (formerly Gost-R) Yes EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas Yes • ATEX Zone 2 Yes • IECEx Zone 22 Yes • IECEx Zone 2 Yes • FM Class I Division 2 No Marine approval Yes • American Bureau of Shipping (ABS) Yes • Bureau Veritas (BV) Yes • Det Norske Veritas (DNV) Yes • Lloyds Register of Shipping (LRS) Yes • Nippon Kaiji Kyokai (Class NK) Yes Ambient conditions Ambient temperature during operation • min. 0 °C • max. 50 °C	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates	Yes Yes
FM approval Yes; Class I Div. 2	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability	Yes Yes hazardous zone 2/22; shipbuilding
RCM (formerly C-TICK) Yes EAC (formerly Gost-R) Yes EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas 	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark	Yes Yes hazardous zone 2/22; shipbuilding Yes
EAC (formerly Gost-R) EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas • ATEX Zone 2 • ATEX Zone 2 • IECEx Zone 2 • IECEx 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) • Nippon Kaiji Kyokai (Class NK) Ambient conditions Ambient temperature during operation • min. • Test Storial (1000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Ye	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL
EMC CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx 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) Ambient conditions Ambient temperature during operation • min. • min. • max. CE, EN 55011, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Ye	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 2 • IECEx 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) Ambient conditions Ambient temperature during operation • min. • min. • min. • max. 50 °C	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2
Use in hazardous areas • ATEX Zone 2 Yes • ATEX Zone 22 Yes • IECEx Zone 2 Yes • IECEx Zone 2 Yes • IECEx Zone 22 Yes • FM Class I Division 2 No Marine approval • Germanischer Lloyd (GL) Yes • American Bureau of Shipping (ABS) Yes • Bureau Veritas (BV) Yes • Det Norske Veritas (DNV) Yes • Lloyds Register of Shipping (LRS) Yes • Nippon Kaiji Kyokai (Class NK) Yes • Nippon Kaiji Kyokai (Class NK) Yes Ambient conditions Ambient temperature during operation • min. 0 °C • max. 50 °C	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK)	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes
ATEX Zone 22 IECEX Zone 2 IECEX 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) Ambient conditions Ambient temperature during operation min. min. 0 °C max. 50 °C	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R)	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes
IECEx Zone 2 IECEx Zone 22 FM Class I Division 2 Mo 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) Ambient conditions Ambient temperature during operation min. min. max. O °C max.	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes
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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) Ambient conditions Ambient temperature during operation min. 0°C max. 50°C	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 ATEX Zone 22	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes
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Nippon Kaiji Kyokai (Class NK) Ambient conditions Ambient temperature during operation	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 ATEX Zone 2 IECEx Zone 2 IECEx Zone 22 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV)	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Ambient conditions Ambient temperature during operation • min. 0 °C • max. 50 °C	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 ATEX Zone 2 IECEx Zone 22 IECEx Zone 22 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV)	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Ambient temperature during operation	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 IECEx 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)	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• min.	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 IECEx 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)	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• max. 50 °C	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 ATEX Zone 2 IECEx Zone 22 IECEx 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) Ambient conditions	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
	Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 ATEX Zone 2 IECEx Zone 22 IECEx 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) Ambient conditions Ambient temperature during operation	Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Ambient temperature during storage/transportation	 Enclosure Type 4x at the front Enclosure Type 12 at the front Standards, approvals, certificates Certificate of suitability CE mark UL approval cULus FM approval RCM (formerly C-TICK) EAC (formerly Gost-R) EMC Use in hazardous areas ATEX Zone 2 IECEx Zone 2 IECEx Zone 2 IECEx 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) Ambient conditions Ambient temperature during operation min. 	Yes Yes Yes hazardous zone 2/22; shipbuilding Yes Yes; cULus, cUL Yes Yes; Class I Div. 2 Yes Yes CE, EN 55011, EN 61000-6-4, EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	3 500 m
Relative humidity	
Operation, max.	90 %; no condensation
Vibrations	
 Vibration load in operation 	10 m/s²
 Vibration load during transport/storage 	10 m/s²
Shock testing	
 Shock load during operation 	150 m/s²
 shock acceleration during storage/transport 	250 m/s²
Mechanics/material	
Enclosure material (front)	With neutral design
Aluminum	Yes
 Aluminum casting 	Yes
• Glass	Yes; at front
Enclosure material (rear)	aluminum
Dimensions	
Width of the housing front	398 mm
Height of housing front	257 mm
Mounting cutout, width	382 mm; Tolerance: +1 mm
Mounting cutout, height	241 mm; Tolerance: +1 mm
Overall depth	63.4 mm
Weights	
Weight (without packaging)	4 kg
Weight (with packaging)	6 kg

last modified: 3/12/2024 🖸