SIEMENS

Data sheet

6AV7251-5KC07-0GA0

SIMATIC IPC477E PRO fully protected IP65; 22" multi-touch (1920 x 1080); for support arm (expandable, round pipe) 4 USB (back); without USB (front); Ethernet (10/100/1000 Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 16 GB; without RS 232/RS485; without PCle; Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Celeron/I3/I5; Without replaceable mass storage; 480 GB solid-state drive SATA Without SIMATIC software 24 V DC industrial power supply

General information	
Product type designation	IPC477E PRO
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	22 in
Display width	497.6 mm
Display height	292.2 mm
Resolution (pixels)	
 Horizontal image resolution 	1 920 pixel
Vertical image resolution	1 080 pixel
Control elements	
Touch operation	
Design as touch screen	Yes; Projective-capacitive
Installation type/mounting	
Mounting	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm
Support arm mounting	Yes; Suitable for support arm and extension components (please refer to manual)
Stand mounting	No
Mounting in portrait format possible	No
maximum permissible installation angle +/-	±45 °
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Optical drives	possible as external drive via USB
SSD	Yes; ≥ 128 GB optional
Memory	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Capacity of main memory, max.	16 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
 Number of PCI slots 	0; Different to the built-in unit
 Number of PCI slots 	0; Different to the built-in unit
Number of compact flash slots	1; CFast
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)

Connection for keyboard/mouse USB / USB		
Section Interfaces Video interfaces Capabics Capa	USB port	4x USB 3.0 onboard (rear)
Action Interface	·	
Carphicis Interface		Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Industrial Ethemet Inferior 3x Ethemet (R,145) Yes		
Holistrial Ethemet interface		2x DisplayPort
100 Mbps		
Bus diagnostics functions Ves	·	
Bus diagnostics Integrated Functions * Temperature monitoring * Yes * Vacahodog * Fan * Monitoring function via network * Optional ENVO Interference immunity against discharge of static electricity * Interference immunity against discharge of static electricity * Interference immunity against high frequency radiation electricity * Interference immunity on supply cables * Interference immunity on supply cables * Interference immunity on signal cables >30m * Interference immunity on signal cables >30m * Interference immunity on signal cables >30m * Interference immunity on signal cables <30m * Interference immunity on signal cables <30m * It IV acc. to IEC 61000-4-5, surge asymmetric * 24 kV acc. to IEC 61000-4-5, surge asymmetric * 14 kV acc. to IEC 61000-4-5, surge asymmetric * 15 kV acc. to IEC 61000-4-5, surge asymmetric * 16 kV acc. to IEC 61000-4-5, surge asymmetric * 17 kV acc. to IEC 61000-4-5, surge asymmetric * 18 kV acc. to IEC 61000-4-5, surge asymmetric * 18 kV acc. to IEC 61000-4-5, surge asymmetric * 18 kV acc. to IEC 61000-4-5, surge asymmetric * 18 kV acc. to IEC 61000-4-5, surge asymmetric * 18 kV acc. to IEC 61000-4-5, surge asymmetric * 18 kV acc. to IEC 61000-4-5, surge asymmetric * 18 kV acc. to IEC 61000-4-5, surge asymmetric * 19 kV acc. to IEC 61000-4-5, surge asymmetric * 19 kV acc. to IEC 61000-4-5, surge asymmetric * 10 kV acc. to IEC 61000-4-5, surge asymmetric * 10 kV acc. to IEC 61000-4-5, surge asymmetric * 10 kV acc. to IEC 61000-4-5, surge asymmetric * 10 kV acc. to IEC 61000-4-5, surge asymmetric * 10 kV acc. to IEC 61000-4-5, surge asymmetric * 10 kV acc. to IEC 61000-4-5, surge asymmetric * 10 kV acc. to IEC 61000-4-5, surge asymmetri	·	Yes
Monitoring functions * Temperature monitoring * Yes * Taking-sture monitoring * Yes * Pan * No * Monitoring function via network * Optional EMC **Interference immunity against discharge of static electricity * Interference immunity against discharge of static electricity * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency electromagnetic fields * Interference immunity to cable-borne interference * Interference immunity to cable-borne interference * Interference immunity on signal cables < 30m * Interference immunity against voltage surge * asymmetric interference * asymmetric interference * * yewmetric interference * * yewmetric interference * * yewmetric interference * * yewmetric interference * * * * * * * * * * *	-	
## Care Process of Section 1997		Yes
• France	Integrated Functions	
Watchdog Fan No - Montioring function via network Optional	Monitoring functions	
For Abortloring function via network No Optional Montraining function via network No Optional ENC Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high frequency radiation (article 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-3; 3 V/m, 2 2.7 (article 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-3; 3 V/m, 2 2.7 (article 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-5; surge symmetric 12 kV acc. to IEC 61000-4-5, surge symmetric 12 kV acc. to IE	Temperature monitoring	Yes
* Monitoring function via network **Nomitoring function via network **Interference immunity against discharge of static electricity **Interference immunity against discharge of static electricity **Interference immunity against high-frequency electromagnetic fields **Interference immunity against high-frequency rediation **Interference immunity to acable-borne interference **Interference immunity to subply cables **Interference immunity on supply cables **Interference immunity	Watchdog	Yes
Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation Interference immunity against high-frequency radiation Interference immunity to cable-borne interference Interference immunity to supply cables Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables > 30m Inte	● Fan	No
Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high frequency electromagnetic fields • Interference immunity against high frequency radiation 10 Vm, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-5 (Hz electricity) 10 Vm, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-5, surge asymmetric electronic immunity on supply cables ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge asymmetric electronic immunity on signal cables > 30m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±2 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±2 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference elementary to magnetic fields at 50 Hz ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric elementeric interference elementary to IEC 61000-4-5, surge asymmetric elementeric interference elementary to IEC 61000-4-5, surge asymmetric elementeric elementeric interference elementeric interference elementeric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric e	Monitoring function via network	Optional
Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation (2000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V. 10 kHz 80 MHz acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V. 10 kHz 80 MHz acc. to IEC 61000-4-5; surge esymmetric electromagnetic immunity on supply cables (2000 MHz, 80 % AM acc. to IEC 61000-4-5; surge esymmetric electromagnetic immunity on signal cables > 30m	EMC	
electricity	Interference immunity against discharge of static electricity	
Interference immunity to cable-borne interference Interference immunity to cable-borne interference Interference immunity to supply cables 22 kV acc. to IEC 61000-4-6, burst; ±1 kV acc. to IEC 61000-4-6, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge symmetric 24 kV acc. to IEC 61000-4-5, surge symmetric 24 kV acc. to IEC 61000-4-5, surge symmetric 24 kV acc. to IEC 61000-4-5, surge, length > 30 m 21 kV acc. to IEC 61000-4-5, surge, length > 30 m 21 kV acc. to IEC 61000-4-5, surge, length > 30 m 24 kV acc. to IEC 61000-4-5, surge asymmetric 24 kV acc. to IEC 61000-4-5, surge a	, ,	
Materian	Interference immunity against high-frequency electromagnetic fields	s
Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity to magnetic fields at 50 Hz Interference immunity to mag	Interference immunity against high frequency radiation	
Interference immunity on supply cables symmetric, ±2 kV acc. to IEC 61000-4-5, surge asymmetric symmetric, ±2 kV acc. to IEC 61000-4-5, surge asymmetric symmetric interference immunity on signal cables < 30m	Interference immunity to cable-borne interference	
Interference immunity on signal cables > 30m 12 kV acc. to IEC 61000-4-5, surge, length > 30 m 1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge asymmetric length reference ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±3 kV acc. to IEC 61000-4-5, surge asymmetric ±4 kV acc. to IEC 61000-4-5, surge asymmetric ±6 k	·	
1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge asymmetric interference	• Interference immunity on signal cables >30m	
Interference immunity against voltage surge • asymmetric interference • symmetric interference • interference immunity to magnetic fields • Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference emission via line/AC current cables • Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP65 (all-round) I	· · · ·	
• asymmetric interference • symmetric interference • interference immunity to magnetic fields • Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP65 (all-round) IP66 (all-round) IP (at the front) IP (rear) IP65 (standards, approvals, certificates CE mark CSA approval UL approval • UL 508 UL 10508 CULus RCM (formerly C-TICK) Yes RCM (formerly Gost-R) EAC (correnty Gost-R)		
• symmetric interference #1 kV acc. to IEC 61000-4-5, surge symmetric Interference immunity to magnetic fields • Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP65 (all-round) Yes; IP65 fully enclosed IP (at the front) IP65 Standards, approvals, certificates CE mark Yes CSA approval Yes UL approval Yes cULus (Seas A) RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes EAC (formerly Gost-R) Yes EAC (formerly Gost-R) Yes EAC (somety Gost-R) Yes OLUse (Seas A) A TEX Zone 2 Yes; Optional • CLULS (Seas I Zone 2, Division 2 Yes; Optional Marine approval • Germanischer Lloyd (GL) Yes • Det Norske Veritas (DNV) Yes • Det Norske Veritas (DNV) Yes • Cornerly Register of Shipping (KRS) Yes • Cornerly Register of Shipping (KRS)	Interference immunity against voltage surge	
Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP65 (all-round) Yes; IP65 fully enclosed IP (at the front) IP (at the front) IP (rear) Standards, approvals, certificates CE mark CSA approval Yes UL approval Ves UL 10 508 Yes CULus RCM (formerly C-TICK) KC approval Yes EAC (formerly Gost-R) EAC (formerly Gost-R) EMC Use in hazardous areas ■ ATEX Zone 2 ■ (ELCEX Zone 2 ■ (CULus Class I Zone 2, Division 2 Marine approval ■ Germanischer Lloyd (GL) ■ American Bureau of Shipping (ABS) ■ Control of Shipping (KRS) Pes Pes Pes Pes Pes Pes Pes Pe	asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
■ Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference ■ Interference emission via line/AC current cables Enterference emission via line/AC current cables Post 1000-6-4, CISPR 22 Class B, FCC Class A Post 1000-6-4, CISPR 24 Class A; FCC Class A Enterference emission via line/AC current cables Enterference emission via line/AC current ca	symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference ● Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP65 (all-round) Yes; IP65 fully enclosed IP (at the front) IP65 IP (rear) IP65 Standards, approvals, certificates CE mark Yes CSA approval Yes UL approval Yes UL approval Yes CULus Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes EAC (formerly Gost-R) Yes EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas ● ATEX Zone 2 Yes; Optional ● CULus Class I Zone 2, Division 2 Yes; Optional Marine approval ● Germanischer Lloyd (GL) ● American Bureau of Shipping (ABS) ● Det Norske Veritas (DNV) ● Korean Register of Shipping (KRS)	Interference immunity to magnetic fields	
Interference emission via line/AC current cables Degree and class of protection IP65 (all-round) IP (at the front) IP (at the front) IP (at the front) IP (rear) IP65 (subspace of the front) IP65	 Interference immunity to magnetic fields at 50 Hz 	100 A/m; to IEC 61000-4-8
Degree and class of protection IP65 (all-round) Yes; IP65 fully enclosed IP (at the front) IP65 IP (rear) IP65 Standards, approvals, certificates CE mark CE mark Yes CSA approval Yes UL approval Yes UL 508 Yes CULus Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas Yes; Optional • ATEX Zone 2 Yes; Optional • ECEx Zone 2 Yes; Optional • CULus Class I Zone 2, Division 2 Yes; Optional Marine approval Yes • American Bureau of Shipping (ABS) Yes • Det Norske Veritas (DNV) Yes • Korean Register of Shipping (KRS) Yes	Emission of conducted and non-conducted interference	
P65 (all-round)	 Interference emission via line/AC current cables 	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
IP (at the front)	Degree and class of protection	
IP (rear)	IP65 (all-round)	Yes; IP65 fully enclosed
Standards, approvals, certificates CE mark CSA approval Yes UL approval • UL 508 CULus RCM (formerly C-TICK) KC approval Yes EAC (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 • IECEx Zone 2 • CULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS) Yes Yes Yes Yes Yes Yes Yes Ye	IP (at the front)	IP65
CE mark CSA approval Yes UL approval UL 508 CULus RCM (formerly C-TICK) Yes EAC (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, EN 61000-6-4; CISPR 25 Class A; FCC Class A ECE, E	IP (rear)	IP65
CSA approval Ves UL approval UL 508 Yes cULus RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 IECEX Zone 2 CULus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Det Norske Veritas (DNV) KYes Yes Yes Yes Yes Yes Yes Ye	Standards, approvals, certificates	
UL approval	CE mark	Yes
CULus Yes CULus Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional • IECEx Zone 2 Yes; Optional • cULus Class I Zone 2, Division 2 Yes; Optional Marine approval • Germanischer Lloyd (GL) Yes • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS)	CSA approval	Yes
CULus Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional • IECEx Zone 2 Yes; Optional • cULus Class I Zone 2, Division 2 Yes; Optional Marine approval • Germanischer Lloyd (GL) Yes • American Bureau of Shipping (ABS) Yes • Det Norske Veritas (DNV) Yes • Korean Register of Shipping (KRS) Yes	UL approval	Yes
RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 • IECEX Zone 2 • cULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS) Yes Yes Yes Yes Yes Yes Yes Ye	• UL 508	Yes
KC approval EAC (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 • IECEx Zone 2 • cULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS)	cULus	Yes
EAC (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 • IECEx Zone 2 • cULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS) Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves; Optional Yes; Optional Yes; Optional Yes Yes Yes Yes Yes Yes Yes	RCM (formerly C-TICK)	Yes
EMC Use in hazardous areas • ATEX Zone 2 • IECEx Zone 2 • cULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS) CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Yes; Optional Yes; Optional Yes; Optional Yes Yes Yes Yes Yes Yes Yes Ye	KC approval	Yes
Use in hazardous areas • ATEX Zone 2 Yes; Optional • IECEx Zone 2 Yes; Optional • cULus Class I Zone 2, Division 2 Yes; Optional Marine approval • Germanischer Lloyd (GL) Yes • American Bureau of Shipping (ABS) Yes • Det Norske Veritas (DNV) Yes • Korean Register of Shipping (KRS) Yes	EAC (formerly Gost-R)	Yes
ATEX Zone 2 IECEx Zone 2 Ves; Optional Cultus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Yes; Optional Yes; Optional Yes Optional Yes Yes Yes Yes	EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
IECEx Zone 2 CULus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Yes; Optional Yes; Optional Yes Yes Yes Yes Yes Yes	Use in hazardous areas	
 cULus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Yes Yes 	ATEX Zone 2	Yes; Optional
Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Det Norske Veritas (DNV) Korean Register of Shipping (KRS)	• IECEx Zone 2	Yes; Optional
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Yes Yes	• cULus Class I Zone 2, Division 2	Yes; Optional
 American Bureau of Shipping (ABS) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Yes Yes	Marine approval	
 Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Yes 	Germanischer Lloyd (GL)	Yes
Korean Register of Shipping (KRS) Yes	 American Bureau of Shipping (ABS) 	Yes
	Det Norske Veritas (DNV)	Yes
	 Korean Register of Shipping (KRS) 	Yes
	 Lloyds Register of Shipping (LRS) 	Yes

Ambient conditions			
Ambient temperature during operation			
● min.	0 °C		
• max.	45 °C		
Ambient temperature during storage/transportation			
• min.	-20 °C		
• max.	60 °C		
Relative humidity			
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)		
Vibrations			
 Vibration resistance during operation acc. to IEC 60068- 2-6 	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s 2 (1 g)		
Shock testing			
Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s 2 (5 g), 30 ms, 100 shocks per axis		
Operating systems	Operating systems		
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10		
without operating system	Yes; Optional		
pre-installed operating system			
Windows 7	Yes; Ultimate 64 bit		
Windows 10 Enterprise	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI		
Accessories			
Accessory components	6AV7674-1KF00-0AA0 - Flange mount for installation (refer to manual)		
Dimensions			
Width of the housing front	527 mm		
Height of housing front	329 mm		
Weights			
Weight, approx.	9.9 kg		

6/25/2021

last modified: