Data sheet 6AV7251-7GC00-0GA0

SIMATIC IPC477E PRO fully protected IP65; 19" multi-touch (1366 x 768); for support arm (expandable, round pipe) 4 USB (back); without USB (front); Ethernet (10/100/1000 Xeon E3-1505L; 3x Gbit Ethernet (IE/PN); 16 GB; without RS 232/RS485; without PCIe; without operating system; 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 | 19 in |
| Display width | 409.8 mm |
| Display height | 230.4 mm |
| Resolution (pixels) | |
| Horizontal image resolution | 1 366 pixel |
| Vertical image resolution | 768 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 |

| Number of industrial Ethernet interfaces | Interfaces | |
|--|--|---|
| USB 10 orboard (rear) | | 3; 3x Ethernet (RJ45) |
| Comector for keyboard/mouse serial Interface Video interfaces • Graphics Interface • Industrial Enhance Interface • Interface Interface • Temperature monitorin • Temperature monitoring • Fan • No • Watchdog • Fan • No • Monitoring functions • Interface Immunity against discharge of static electricity • Interface Immunity against Interface Interface • Interface Immunity against Interface Interface • Interface Immunity against Interface • Interface Immunity against Interface • Interface Immunity on supply cables • Interface Immunity to aspiral cables 30m • Interface Immunity on supply cables • Interface Immunity to against solitage surge • asymmetric Interface • Interface Immunity on supply cables • Interface Immunity to against Interface • Interface Immunity on Supply cables • Interface Im | | |
| serial interfaces Graphics interface Graphics inte | | |
| A Compile interface 2x DisplayPort | | |
| Industrial Ethernet | Video interfaces | |
| Industrial Ethernet | Graphics interface | 2x DisplayPort |
| — 100 Mbps | · | |
| The control of the | Industrial Ethernet interface | 3x Ethernet (RJ45) |
| Interrupts/diagnostics/status information Bus diagnostics Temperature monitoring Yes | — 100 Mbps | Yes |
| Bus diagnostics Integrated Functions Integrate no Fan No Optional ENC Integrate no Fan No Optional Encorrect Integrate immunity against discharge of static electricity Integrate immunity against discharge of static electricity Integrate immunity against discharge of static electricity Integrate no Fan No No Optional Encorrect Integrate immunity against high-frequency electromagnetic feelds Integrate no Fan No | — 1000 Mbps | Yes |
| Bus diagnostics Integrated Functions Integrate no Fan No Optional ENC Integrate no Fan No Optional Encorrect Integrate immunity against discharge of static electricity Integrate immunity against discharge of static electricity Integrate immunity against discharge of static electricity Integrate no Fan No No Optional Encorrect Integrate immunity against high-frequency electromagnetic feelds Integrate no Fan No | Interrupts/diagnostics/status information | |
| Monitoring functions Yes Yes | | Yes |
| Monitoring functions Yes Yes | Integrated Functions | |
| Temperature monitoring Watchdog Watchdog Fan No Monitoring function via network CMC 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 on supply cables Interference immunity on signal cables > 30m Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference immunity to mag | | |
| Watchdog Fan Monotroing function via network Optional EMC Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetor fields Interference immunity or against high-frequency electromagnetor fields Interference immunity or supply cables Interference immunity or supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity on signal cables <30m Interferenc | • | Yes |
| Fan | | |
| Monitoring function via network Monitoring function via network Monitoring 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 electromagnetic fields Interference immunity to cable-borne interference Interference immunity to cable-borne interference Interference immunity to cable-borne interference Interference immunity on signal cables > 30m Interference immunity against voltage surge Interference immunity against voltage s | <u> </u> | |
| 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 to cable-borne interference Interference immunity on supply cables Interference immunity on signal cables > 30m Interference immunity against voltage surge asymmetric interference Interference immunity to magnetic fields Interference immunity interference Interference immunity interference Interference immunity interference | | |
| 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 to cable-borne interference Interference immunity to asble-borne interference Interference immunity on supply cables Interference immunity on signal cables > 30m Interference immunity on signa | | |
| 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 27 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-3; 3 V/m, 2 27 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-5; urge asymmetric interference immunity on supply cables 12 kV acc. to IEC 61000-4-4, burst; 1 kV acc. to IEC 61000-4-5, surge asymmetric interference immunity on signal cables > 30m 12 kV acc. to IEC 61000-4-5, surge asymmetric interference immunity on signal cables < 30m 14 kV acc. to IEC 61000-4-5, surge asymmetric 14 kV acc. to IEC 61000-4-4; burst; length > 30 m 14 kV acc. to IEC 61000-4-5, surge asymmetric 14 kV acc. to IEC 61000-4-5, surge | | |
| electricity to lEC 61000-4-2 Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency adiation Interference immunity to cable-borne interference Interference immunity to supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity on signal cables <30m Interference immunity against voltage surge asymmetric interference symmetric interference 12 kV acc. to IEC 61000-4-5, surge length > 3 m Interference immunity on magnetic fields 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 Pegree and class of protection IP65 (all-round) IP (at the front) IP (at the front) IP (rear) IP (at proval Ves CE mark Yes CSA approval Ves CULus Yes RCM (formerty C-TICK) Yes RCM (formerty C-TICK) Yes EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves EMC EMC (Cornerty Gost-R) Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CULus Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves: Optional Arrive approval Arrive app | | +6 kV contact discharge acc. to IEC 61000-4-2: +8 kV air discharge acc. |
| Interference immunity against high frequency radiation 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 asymmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to | , , | |
| radiation 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-6 Interference immunity to cable-borne interference • 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 against voltage surge • asymmetric interference • asymmetric interference • symmetric interference • lat kV acc. to IEC 61000-4-5, surge asymmetric • symmetric interference • symmetric interference • symmetric interference • lat 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 61000-4-4; 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 61000-4-4; 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 61000-4-4; 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 61000-4-4; 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 symmetric 100 kUrst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge symmetric 100 kUrst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge symmetric 100 kUrst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge symmetric 100 kUrst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge symmetric 100 kUrst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge symmetric 100 kUrst; length < 3 m; ±2 kV | Interference immunity against high-frequency electromagneti | c fields |
| Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity on signal cables < 30m Interference immunity against voltage surge asymmetric interference symmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission vial line/AC current cables Interference emission vial 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) IP (at the front) IP (rear) IP65 Standards, approvals, certificates CE mark CSA approval Ves UL approval Ves UL 1008 Ves CULus Yes RCM (formerly C-TICK) Yes EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A CULus Yes EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 Yes; Optional ATEX Zone 2 Yes; Optional Germanischer Lloyd (GL) Yes | | |
| 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 against voltage surge asymmetric interference symmetric interference symmetric interference symmetric interference *2 kV acc. to IEC 61000-4-5, surge asymmetric *3 m *4 kV acc. to IEC 61000-4-5, surge asymmetric *5 mymetric interference *4 kV acc. to IEC 61000-4-5, surge asymmetric *5 mymetric interference *5 mymetric interfer | | 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-6 |
| symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity on signal cables > 30m • Interference immunity on signal cables < 30m • Interference immunity against voltage surge • asymmetric interference • asymmetric interference • symmetric interference • loo A/m; to IEC 61000-4-5, surge asymmetric • symmetric interference • loo A/m; to IEC 61000-4-5, surge asymmetric • loo A/m; to IEC 61000-4-5, surge symmetric • loo A/m; to IEC 61000-4-6, clspralled • loo A/m; to IEC 61000-4-6, clspralled • loo A/m; to IEC 61000-4-6 | • | |
| Interference immunity on signal cables < 30m | Interference immunity on supply cables | |
| 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 EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP65 (all-round) IP (at the front) IP (at the front) IP (rear) IP65 Standards, approvals, certificates CE mark Yes CSA approval Ves UL approval • UL 508 • UL 508 CULus Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes EAC (formerly Gost-R) EAC (E, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 • CULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) Ves Germanischer Lloyd (GL) | Interference immunity on signal cables >30m | |
| • asymmetric interference • symmetric interference • linterference 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) IP (at the front) IP65 IP65 Standards, approvals, certificates CE mark CSA approval • UL approval • UL 508 CULus 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 • cULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) Yes Germanischer Lloyd (GL) | Interference immunity on signal cables < 30m | |
| Symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Imission 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 IP (at the front) IP (at the front) IP (at the front) IP (at the front) IP (at mark Yes Standards, approvals, certificates CE mark CE mark Yes CSA approval Ves UL approval Ves UL 508 CULus Yes RCM (formerly C-TICK) Yes RCM (formerly Gost-R) EAC (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 Ves; Optional Ves; Optional Marine approval Germanischer Lloyd (GL) Yes Germanischer Lloyd (GL) Yes Germanischer Lloyd (GL) Yes Germanischer Lloyd (GL) Yes OA/m; to IEC 61000-4-8 100 A/m; to IEC 61000-4-4, CISPR 22 Class A; FCC Class A | Interference immunity against voltage surge | |
| Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Imission of conducted and non-conducted interference Interference emission via line/AC current cables Interference emission value of the condonness of the follow-6-4, CISPR 22 Class A; FCC Class A; FC | 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 EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP65 (all-round) IP (at the front) IP (trear) IP65 (subsequence) CE mark Yes CSA approval Ves UL approval Ves UL 508 CULus PCM (formerly C-TICK) Yes RCM (formerly Gost-R) EMC CE, EN 61000-6-4; CISPR 22 Class B, FCC Class A EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A IP65 (subsequence) IP65 (subsequence) IP65 Yes CSA approval Yes CL ULus Yes 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 | 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) IP (at the front) IP (at the front) IP (rear) Standards, approvals, certificates CE mark CSA approval UL approval UL 1508 CULus 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 EICEX Zone 2 CULus (Yes; Optional Yes; Optional Marine approval Marine approval OCE, EN 61000-6-4 Yes; Optional OCE (Germanischer Lloyd (GL) Yes County C-TICK Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Ves; Optional | Interference immunity to magnetic fields | |
| ● Interference emission via line/AC current cables Degree and class of protection IP65 (all-round) IP65 (all-round) IP (at the front) IP (rear) IP (rear) IP65 Standards, approvals, certificates CE mark CSA approval UL approval UL 508 CULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) EMC Use in hazardous areas ● ATEX Zone 2 ● IECEx Zone 2 ● CULus Class I Zone 2, Division 2 Marine approval ● Germanischer Lloyd (GL) Pes; IP65 fully enclosed IP65 IP965 | 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 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 ATEX Zone 2 Yes; Optional • IECEx Zone 2 Yes; Optional • cULus Class I Zone 2, Division 2 Yes; Optional Marine approval Yes • Germanischer Lloyd (GL) Yes | | |
| P65 (all-round) | | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A |
| IP (at the front) | Degree and class of protection | |
| IP65 Standards, approvals, certificates | IP65 (all-round) | Yes; IP65 fully enclosed |
| Standards, approvals, certificates CE mark CSA approval Yes 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 UL 508 Yes Yes Yes Yes Yes Yes Yes Ye | IP (at the front) | |
| 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 | IP (rear) | IP65 |
| CSA approval UL approval UL 508 Yes CULus 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 ECLE X Zone 2 CULus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) Yes Yes Yes Yes Yes Yes Yes; Optional Yes; Optional Yes; Optional | Standards, approvals, certificates | |
| UL approval | CE mark | Yes |
| UL 508 CULus 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 IECEx Zone 2 CULus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) Yes Yes Yes Yes Yes Yes Yes Ye | CSA approval | 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) Yes Yes Yes Yes Yes Yes Yes Ye | 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) 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) Yes | 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) Yes Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Yes; Optional Yes; Optional Yes; Optional | RCM (formerly C-TICK) | Yes |
| 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) Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Yes; Optional Yes; Optional Yes; Optional | 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 | | |
| ATEX Zone 2 IECEx Zone 2 CULus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) Yes; Optional Yes; Optional Yes; Optional Yes; Optional | 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) Yes; Optional Yes; Optional Yes | | |
| • cULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL) Yes; Optional Yes | | |
| Marine approval ● Germanischer Lloyd (GL) Yes | • IECEx Zone 2 | Yes; Optional |
| Germanischer Lloyd (GL) Yes | cULus Class I Zone 2, Division 2 | Yes; Optional |
| | | |
| American Bureau of Shipping (ABS) 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 | |
| Ambient temperature during operation | 0 °C to 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/s² (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 , $100 \text{ shocks per axis}$ |
| 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 | 462 mm |
| Height of housing front | 292 mm |
| Weights | |
| Weight, approx. | 8.8 kg |
| last modified: | 5/9/2021 🗗 |