## SIEMENS

## Data sheet

## 6AV6646-1BA22-1AA0

SIMATIC ITC2200 V3, Industrial Thin Client, 22" widescreen TFT display, capacitive touch sensor, Supported protocols: RDP, VNC, Smart Server, HTML5, etc., standard design, Built-in unit



General information		
Product type designation	ITC2200 V3	
Display		
Design of display	TFT widescreen display, LED backlighting	
Screen diagonal	21.5 in; 22"	
Display width	495.6 mm	
Display height	292.2 mm	
Number of colors	16 777 216	
Resolution (pixels)		
<ul> <li>Image resolution</li> </ul>	1 920 x 1 080	
<ul> <li>Horizontal image resolution</li> </ul>	1 920 pixel	
<ul> <li>Vertical image resolution</li> </ul>	1 080 pixel	
General features		
<ul> <li>non-reflective and tempered mineral glass screen</li> </ul>	Yes	
Detachable from computer unit	100 m	
Backlighting		
<ul> <li>Type of backlighting</li> </ul>	LED, dimmable	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	30 000 h; At 25°C	
<ul> <li>Backlight dimmable</li> </ul>	Yes	
Control elements		
Control elements	multi-touch screen	
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	Built-in unit	
Front mounting	Yes	
Support arm mounting	No	
Stand mounting	No	
Built-in unit	Yes	
maximum permitted forward tilt angle from vertical	35°	
maximum permitted backward tilt angle from vertical	35°	
Supply voltage		
Type of supply voltage	DC	
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	

permitsion range. upper min (bc)         28.8 v           Current Consumption (rande value)         1.7 A           Starting current insish P         0.5 A* s           Power         Acker power insish P           Acker power insish P         0.5 A* s           Acker power insish P         41 W           Interfaces         41 W           Interfaces         4.0 mean           Connection for keyboard/mouse         USB s           Interfaces         4.0 mean           Connection for keyboard/mouse         USB s           Interfaces         1000 Mbd/s           Protocols (Ethemet)         *           * TOTAmsmoor rate, max.         1000 Mbd/s           Protocols (Ethemet)         *           * OPCP         Yes           • DDP         Yes           • DAME         Yes           • LDP         Yes           • LDP         Yes           • SMME         Yes           • SSME         Yes           • SSME         Yes           • CSS         Yes           • CSS         Yes           • SMAL         Yes           • SMAL         Yes           • SMME/Server         Yes <th>n a maio situla anno an linsit (DO)</th> <th>00.01/</th>	n a maio situla anno an linsit (DO)	00.01/
Current consumption (ined value)         17.A           Starting current invish Pt         0.5 A* is           Poword         41 W           Active power input. typ.         41 W           Muther of Industrial Ethernet interfaces         2.2 ports (switch)           Number of Usb Interfaces         2.2 ports (switch)           Number of Industrial Ethernet interfaces         4.0 on rear           USB on the rear         Yes, 24 onboard           Connection for keyboard/mouse         USB           Industrial Ethernet         1000 Mbit/s           Protocols         *           Protocols         *           * TCP/P         Yes           • DCP         Yes           • DCP         Yes           • LDP         Yes           • LDP         Yes           • LDP         Yes           • VME devardansitiss         Yes           • LDP         Yes           • LDP         Yes           • VME devardansitiss         Yes           • CDP         Yes           • MTRL         Yes           • Dotatiss (terminal link)         Yes           • Contrain         No           Shuld Case of protocols         Yes	permissible range, upper limit (DC)	28.8 V
Stating current innuls IP         0.5 A*s           20xed         Active power input. typ.         41 W           Interfaces		
Jower         4           Active power input, typ.         41 W           Interfraces         2.2 ports (switch)           Number of Industrial Ethernet Interfaces         4. on rear           USB on the rear         Ves, 2x onboard           Connection for keyboard/mouse         USB           Industrial Ethernet         1000 Mbitis           * Torannission rate, max.         1000 Mbitis           Protocols         *           * Torannission rate, max.         1000 Mbitis           * Torannistististististististististististististi		
Adtre power input, typ.         41 W           Interfaces         Number of industrial Ethernet interfaces         2; 2 ports (switch)           Number of USB interfaces         4; on rear           USB on the rear         USE           Connection for keybaardmouse         USB           Industrial Ethernet            • Transmission rate, max.         1 000 Mbit/s           Protocols         Yes           • DR/CP         Yes           • Sing/Fisterer         Yes           • Sing/Fisterer         Yes           •	Starting current inrush I <sup>2</sup> t	0.5 A <sup>2</sup> ·s
Interfaces         2:2 ports (switch)           Number of industrial Ethernet interfaces         4; on rear           USB on the rear         Yes; 2x onboard           Connection for keyboard/mouse         USB           Industrial Ethernet         1 000 Mbit/s           Protocols         Protocols           Protocols         Yes;           UDP         Yes;           • DCP         Yes;           • LUP         Yes;           • HTML         Yes; HTML5           • XML         Yes;           • SiMMP         Yes;           • Signifishorer         Yes;           • Signifishorer         Yes;           • Signifishorer         Yes;           • VNC viewer         Yes;           • Signifishorer         Yes;     <	Power	
Number of industrial Element interfaces         2:2 ports (switch)           Number of USB interfaces         4: on rear           USB on the rear         Yes: 2x onboard           Connection for keyboardmouse         USB           Industrial Element         1000 Molt/s           Protocols         Yes           Protocols (themet)         Yes           • DCCP         Yes           • DCP         Yes           • LIDP         Yes           • LIDP         Yes           • LIDP         Yes           • LIDP         Yes           • HTTP         Yes           • LIDP         Yes           • LIDP         Yes           • SMMP         Yes           • LOP         Yes           • LIDP         Yes           • KRD         Yes           • SongitServer         Yes           • ROP         Yes           • Not viewer         Yes           • Critix         No           • SINUMERIK         No           • SinUMERIK         No           • Enclosure Type 4 at the front         Yes           • Enclosure Type 4 at the front         Yes           • Enclosure	Active power input, typ.	41 W
Number of USB Interfaces         4: on rear           USB on the rear         Yes, 2x orboard           Connection for keyboard/mouse         USB           Industrial Ethernet         1000 Mbit/s           Protocols         Protocols           Protocols (Ethernet)         Yes           • TCR=mission rate, max.         1000 Mbit/s           Protocols         Yes           • DCP         Yes           • DCP         Yes           • SMMP         Yes           • DCP         Yes           • ULDP         Yes           • WEB characteristics         ************************************	Interfaces	
USB     Ves; 2x onboard       Connection for keyboard/mouse     USB       Industrial Enternet     USB       Industrial Enternet     1000 Mbit/s       Protocols     Protocols       IDHOP     Yes       SIMUP     Yes       UCP     Yes       UCP     Yes       UCP     Yes       UCP     Yes       UCP     Yes       UCP     Yes       WEB characteristics     +       + HTIP     Yes       - SML     Yes       VKL     Yes       VRD     Yes       VRD viewer     Yes       - Singrificerver     Yes       - RDP     Yes       - VNC viewer     Yes       - SinUMERIK     No       Degree and class of protoction     IP65       IP (at the front)     IP65       NEAd, (front)     Yes       - Enclosure Type 4 at the front     Yes       - Enclosure Type 12 at the front     Yes       - Encl	Number of industrial Ethernet interfaces	2; 2 ports (switch)
Connection for keyboardmouse     USB       Industrial Ethemat     • Transmission rate, max.     1 000 Mbl/s       Protocols (Ethemat)     • TCP/IP     Yes       • TCP/IP     Yes     • SNMP       • SNMP     Yes     • SNMP       • LDP     Yes     • SNMP       • LLDP     Yes     • SNMP       • LLDP     Yes     • SNMP       • HTTP     Yes     • SNMP       • HTTP     Yes     • SNMP       • CSS     Yes     • SNMP       • SSGENER     Yes     • SSGENER       • SSGENER     Yes     • SSGENER       • SSGENER     Yes     • SSGENER       • SNUMERIK     Yes     • SSGENER       • SNUMERIK     No     • SSGENER       • SUNUMERIK     No     • SSGENER       • Enclosure Type 4 at the front     Yes       • Enclosure Type 4	Number of USB interfaces	4; on rear
Industrial Ethernet         • Transmission rate, max.         Protocols         Protocols (Ethernet)         • TCP/IP         • DHCP         • DHCP         • DCP         • DCP         • DCP         • HTTP         • HTTP         • HTTP         • HTTP         • MBB characteristics         • HTTP         • MTTP         • Sin@rtServer         • Sin@rtServer         • VRC viewer         • Sin@rtServer         • Sin@rtServer         • VRC viewer         • SINUMERIK         No         Degree and class of protection         IP (at the front)         • Enclosure Type 4 at the front         • Enclosure Type 4 at the front         • Enclosure Type 4 at the front         • Ves         • Enclosure Type 4 at the front         • Enclosure Type 4 at the front <td< td=""><td>USB on the rear</td><td>Yes; 2x onboard</td></td<>	USB on the rear	Yes; 2x onboard
Industrial Ethernet       1 000 Mbit/s         Protocols       Protocols (Ethernet)         • TCP/IP       Yes         • DHCP       Yes         • DCP       Yes         • UDP       Yes         • HTTP       Yes         • HTTP       Yes         • MML       Yes. HTML5         • MML       Yes. HTML5         • MML       Yes         • CSS       Yes         • JavaScript       Yes         • Protocols (Ethernet)       Yes         • SiNGrtServer       Yes         • RDPF       Yes         • DProtocols (Ethernet)       Yes         • UNC viewer       Yes         • UNC viewer       Yes         • SINUMERIK       No         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	Connection for keyboard/mouse	USB
Protocols         Protocols (Ethernet)         • TCP/IP         • DHCP         • DHCP         • DHCP         • DHCP         • DCP         • LDP         • MEE characteristics         • HTTP         • HTML         • ML         • SS         • JavaScript         Yes         Protocols (terminal link)         • Sim@rtServer         • RDP         • NC viewer         • SINUMERIX         No         • Enclosure Type 4 at the front         • Enclosure Type 4 at th		
Protocols (Ehemet)       Yes         • TCP/IP       Yes         • BHCP       Yes         • SIMAP       Yes         • BLDP       Yes         • HTTP       Yes         • STS       Yes         • SSS       Yes         • Sold Server       Yes         • RDP       Yes         • RDP       Yes         • Citrix       No         • SINUMERIK       No         Degree and class of protection       IP         IP (at the front)       IP65         NEMA (front)       IP65         NEMA (front)       Yes         • Enclosure Type 4 at the front       Yes         • Enclosure Type 12 at the front       Yes         • Enclosure Type 4 at the front       Yes         • Enclosure Type 4 at the front       Yes         • Enclosure Type 4 at the	Transmission rate, max.	1 000 Mbit/s
• CP/IPYes• DHCPYes• SINIPYes• DCPYes• LDPYesWEB characteristics	Protocols	
• CP/IPYes• DHCPYes• SINIPYes• DCPYes• LDPYesWEB characteristics	Protocols (Ethernet)	
• DHCPYes• SNMPYes• ICCPYes• LLDPYes• HTTPYes• HTTPYes• HTMLYes, HTML5• XMLYes• SSSYes• Son@rtServerYes• Sin@rtServerYes• NKC viewerYes• CitrixNo• SINUMERIKNoPerotocsic fuestorYes• Enclosure Type 4 at the frontYes• Enclosure Type 4 x at the frontYes• Enclosure Type 4 x at the frontYes• Enclosure Type 12 at the frontYes• Enclosure Type 2Yes• Enclosure Type 12 at the frontYes• Enclosure Type 2Yes• Enclosure Type 12 at the frontYes• Enclosure Type 2Yes• Enclosure Type 3Yes• Enclosure Type 4Yes• Enclosure Type 4Yes• Enclosure Type 4Yes• Enclosure Type 4Yes• Enclo		Yes
• SNMPYes• LCPYes• LLPYesWEB characteristics// Yes• HTTPYes• HTMLYes./HTML5• KMLYes• SNMPYes• SNMYes• SNMYes• SSSYes• JavaScriptYesProtocols (terminal link)// Yes• SIG/HSarverYes• KNC viewerYes• DPYes• SINUMERIKNoDegree and class of protoction// Pe65IP (at the front)// Pe65• Enclosure Type 4 at the frontYes• Enclosure Type 2 at the frontYesCE markYesCULusYesFM approvalYesCK (tormerly Co-TICK)YesKC approvalYes• ATEX Zone 2Yes• LCEX Zone 2Yes• LCEX Zone 2Yes• LCEX Zone 2Yes• LCEX Zone 2Yes• ECEX Zone 2Yes•		
• DCP     Yes       • LDP     Yes       • HTTP     Yes       • HTTP     Yes       • HTML     Yes, HTML5       • KML     Yes       • SS     Yes       • JavaScript     Yes       • Frocosit (terminal link)     Yes       • Sm@rtServer     Yes       • NKO viewer     Yes       • NKO viewer     Yes       • NNUMERIK     No       Degree and class of protection     IP65       IP (at the front)     IP65       NEMA (front)     enclosure Type 4 at the front       • Enclosure Type 4 at the front     Yes       • Enclosure Type 4 at the front     Yes <td< td=""><td></td><td></td></td<>		
• LLDP     Yes       WEB characteristics		
WEB characteristics <ul> <li>HTTP</li> <li>HTML</li> <li>Yes</li> <li>XML</li> <li>Yes</li> <li>CSS</li> <li>JavaScript</li> <li>Yes</li> <li>Protocols (terminal link)</li> <li>Sm@rtServer</li> <li>RDP</li> <li>VNC viewer</li> <li>Yes</li> <li>ONC viewer</li> <li>Yes</li> <li>Standards, approvals, certificates</li> <li>CE mark</li> <li>QUus</li> <li>Yes</li> <li>EAG oproval</li> <li>Yes</li> <li>Capproval</li> <li>Yes</li> <li>Commity Gost-R)</li> <li>Yes</li> <li>ATEX Zone 2</li> <li>Yes</li> <li>Yes</li> <li>ATEX Zone 2</li> <li>Yes</li> <li>Areicas Division 2</li></ul>		
• HTTP     Yes       • HTML     Yes, HTML5       • KML     Yes       • CSS     Yes       • JavaScript     Yes       Protocols (terminal link)     Yes       • Sm@rtServer     Yes       • KDP     Yes       • KVC viewer     Yes       • Citrix     No       • SINUMERIK     No       Degree and class of protection     IP65       IP (at the front)     IP65       NEMA (front)     Yes       • Enclosure Type 4 at the front     Yes       • Enclosure Type 12 at the front     Yes       CE mark     Yes       CLUus     Yes       FM approval     Yes       RCM (formerly CuTICK)     Yes       KC approval     Yes       • ATEX Zone 2     Yes       • ATEX Zone 2     Yes       • ECC (formerly Gost-R)     Yes       • ECEX Zone 2     Yes <td< td=""><td></td><td></td></td<>		
• HTML       Yes; HTML5         • XML       Yes         • CSS       Yes         • JavaScript       Yes         Protocols (terminal link)       Yes         • RDP       Yes         • RDP       Yes         • CItrix       No         • SINUMERIK       No         • SINUMERIK       No         • Citrix the front       Yes         • Citrix the front       Yes         • Enclosure Type 4 at the front       Yes         • Clus       Yes         Clus       Yes         Clus       Yes         • Enclosure Type 12 at the front       Yes         • Clus       Yes         • Clus       Yes         • Clus       Yes         • Enclosure Type 12 at the front       Yes         • Clus       Yes<		Yes
<ul> <li>XML Yes</li> <li>CSS Yes</li> <li>JavaScript Yes</li> <li>Protocols (terminal link)</li> <li>Sm@rtServer Yes</li> <li>RDP Yes</li> <li>VNC viewer Yes</li> <li>Cltrix No</li> <li>SINUMERIK No</li> <li>Degree and class of protection</li> <li>IP (at the front)</li> <li>IP (at the front)</li> <li>Enclosure Type 4 at the front Yes</li> <li>Enclosure Type 4 at the front Yes</li> <li>Enclosure Type 4 at the front Yes</li> <li>Standards, approvals, certificates</li> <li>CE mark Yes</li> <li>CULus Yes</li> <li>RCM (formerly C-TICK)</li> <li>Yes</li> <li>EAC (formerly Gost-R)</li> <li>Yes</li> <li>EAC (formerly Gost-R)</li> <li>Yes</li> <li>EAC (formerly Gost-R)</li> <li>Yes</li> <li>ATEX Zone 2</li> <li>ATEX Zone 2</li> <li>Yes</li> <li>ECEx Zone 22</li> <li>Yes</li> <li>ECEX Zone 23</li> <li>Yes</li> <li>ECEX Zone 24</li> <li>Yes</li> <li>ECEX Zone 25</li> <li>Yes</li> <li>ECEX Zone 27</li> <li>Yes</li> <li>ECEX Zone 28</li> <li>Yes</li> <li>ECEX Zone 29</li> <li>Yes</li> <li>ECEX Zone 20</li> <li>Yes</li> <li>ECEX</li></ul>		
<ul> <li>CSS Yes</li> <li>JavaScript Yes</li> <li>JavaScript Yes</li> <li>JavaScript Yes</li> <li>Protocols (terminal link)</li> <li>Sin@rtServer Yes</li> <li>RDP Yes</li> <li>RDP Yes</li> <li>VNC viewer Yes</li> <li>Citrix No</li> <li>SINUMERIK No</li> </ul> Pogree and class of protection IP (at the front) <ul> <li>IP (at the front)</li> <li>Enclosure Type 4 at the front Yes</li> <li>Enclosure Type 4 at the front Yes</li> <li>Enclosure Type 1 at the front Yes</li> </ul> Standards, approvals, certificates CE mark Yes <ul> <li>Culus Yes</li> <li>Culus Yes</li> <li>RCM (formerly C-TICK)</li> <li>Kc approval</li> <li>EAC (formerly Gost-R)</li> <li>Use in hazardous areas</li> <li>ATEX Zone 2</li> <li>ATEX Zone 2</li> <li>Yes</li> <li>EICEX zone 2</li> <li>Yes</li> <li>EICEX zone 2, Division 2</li> <li>Yes</li> <li>EICEX zone 2, Yes</li> <li>EICEX zone 2, Division 2</li> <li>Yes</li> <li>EICEX zone 2, Yes</li> <li>EICEX zone 2, Division 2, Yes</li> <li>EICEX zone 2, Yes</li> <li>EICEX zone 3, Division 2, Yes</li> <li>EICEX zone 4, Column 4, Col</li></ul>		
• JavaScript     Yes       Protocols (terminal link)     ************************************		
Protocols (terminal link) <ul> <li>Sm@ptServer</li> <li>RDP</li> <li>Yes</li> <li>RDP</li> <li>Yes</li> <li>VNC viewer</li> <li>Yes</li> <li>VNC viewer</li> <li>Stitution</li> <li>Stitution</li> <li>Stitution</li> <li>Pegree and class of protection</li> <li>IP (at the front)</li> <li>PP65</li> <li>NEMA (front)</li> <li>Enclosure Type 4 at the front</li> <li>Yes</li> <li>Enclosure Type 12 at the front</li> <li>Yes</li> <li>Enclosure Type 12 at the front</li> <li>Yes</li> <li>Enclosure Type 12 at the front</li> <li>Yes</li> <li>RCM (formerly C-TICK)</li> <li>Yes</li> <li>RCM (formerly C-TICK)</li> <li>Yes</li> <li>RCA (formerly C-SI-RK)</li> <li>Yes</li> <li>EAC (formerly C-SI-RK)</li> <li>Yes</li> <li>Use in hazardous areas</li> <li>ATEX Zone 2</li> <li>Yes</li> <li>ATEX Zone 2</li> <li>Yes</li> <li>IECE X Zone 2</li> <li>Yes</li> <li>IECE X</li></ul>		
• Sm@rtServer     Yes       • RDP     Yes       • VNC viewer     Yes       • Citrix     No       • SINUMERIK     No       Pegree and class of protection     IP65       IP (at the front)     IP65       NEMA (front)     IP65       • Enclosure Type 4 at the front     Yes       • Enclosure Type 4 at the front     Yes       • Enclosure Type 4 at the front     Yes       • Enclosure Type 12 at the front     Yes       Standards, approvals, certificates     C       CE mark     Yes       GULus     Yes       FM approval     Yes       RCM (formerly C-TICK)     Yes       KC approval     Yes       Use in hazardous areas     Yes       • ATEX Zone 2     Yes       • ATEX Zone 2     Yes       • IECEx Zone 2     Yes       • IECEX Zone 2     Yes       • IECEX Zone 2     Yes       • FM Class I Division 2     Yes       • FM Class I Division 2     Yes       Marine approval     No; Available soon       • Bureau Veritas (BV)     No; Available soon		
• RDPYes• VNC viewerYes• CitrixNo• SINUMERIKNoDegree and class of protectionIP (at the front)IP65NEMA (front)IP65• Enclosure Type 4 at the frontYes• Enclosure Type 4x at the frontYesCE markYescULusYesFM approvalYesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areas• ATEX Zone 2Yes• LECEX Zone 22Yes• IECEX Zone 22Yes• EACX Zone 22Yes• FM Class I Division 2Yes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		Yes
• VNC viewerYes• CitrixNo• SINUMERIKNoDegree and class of protectionIP (at the front)IP (at the front)IP65NEMA (front)Pes• Enclosure Type 4 at the frontYes• Enclosure Type 4 at the frontYes• Enclosure Type 4 at the frontYes• Enclosure Type 12 at the frontYes• Enclosure Type 12 at the frontYesCE markYescdLusYesFM approvals, certificatesYesCK (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• LECEX Zone 22Yes• IECEX Zone 22Yes• EICEX Zone 22Yes• EICEX Zone 22Yes• FM Class I Zone 2, Division 2Yes• FM Class I Division 2Yes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon	_	
• CitrixNo• SINUMERIKNoDegree and class of protectionIP (at the front)IP (at the front)IP (at the front)• Enclosure Type 4 at the frontYes• Enclosure Type 4 at the frontYes• Enclosure Type 12 at the frontYes• Enclosure Type 12 at the frontYesStandards, approvals, cortificatesCE markCE markYescUlusYesRCM (formerly C-TICK)YesRCM (formerly C-TICK)YesLAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 22Yes• IECEx Zone 22Yes• IECEx Zone 22Yes• IECEx Zone 22Yes• IECEx Zone 22Yes• FM Class I Division 2Yes• FM Class I Division 2Yes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		
• SINUMERIKNoDegree and class of protectionIP (at the front)IP65NEMA (front)• Enclosure Type 4 at the front• Enclosure Type 4 at the frontYes• Enclosure Type 12 at the frontYesStandards, approvals, certificates• Enclosure Type 12 at the frontCE markYescULusYesFM approvalYesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areas• Yes• IECEx Zone 2Yes• IECEx Zone 2Yes• IECEx Zone 2, Division 2Yes• CULus Class I Zone 2, Division 2Yes• FM Class I Division 2YesMarine approvalNo; Available soon• Bureau Veritas (BV)No; Available soon• Bureau Veritas (BV)No; Available soon		
Degree and class of protection         IP (at the front)       IP65         NEMA (front)       • Enclosure Type 4 at the front       Yes         • Enclosure Type 4x at the front       Yes         • Enclosure Type 12 at the front       Yes         Standards, approvals, certificates       Yes         CE mark       Yes         dULus       Yes         FM approval       Yes         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         Use in hazardous areas       Yes         • ATEX Zone 2       Yes         • IECEx Zone 22       Yes         • IECEx Zone 22       Yes         • IECEx Zone 2       Yes         • CULus Class I Zone 2, Division 2       Yes         • EAC (formerly Gost-R)       Yes         • IECEx Zone 22       Yes         • IECEx Zone 2       Yes         • ULus Class I Zone 2, Division 2       Yes         • EM Class I Division 2       Yes         • FM Class I Division 2       Yes         • FM Class I Division 2       Yes         • FM Class I Division 2       Yes         • Germanischer Lloyd (GL)       No; Available soon		
IP (at the front)       IP65         NEMA (front)       Yes         • Enclosure Type 4x at the front       Yes         • Enclosure Type 4x at the front       Yes         • Enclosure Type 12 at the front       Yes         Standards, approvals, certificates       Yes         CE mark       Yes         cULus       Yes         FM approval       Yes         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         Use in hazardous areas       Yes         • ATEX Zone 2       Yes         • IECEx Zone 2       Yes         • Use in bazardous areas       Yes         • LICEX Zone 2       Yes         • LICEX Zone 2       Yes         • LICEX Zone 2       Yes         • Use in bazerous 1/2 (Ses)       Yes         • ULus Class I Zone 2, Division 2       Yes         • ULus Class I Zone 2, Division 2       Yes         • EMarine approval       Yes         • Germanischer Lloyd (GL)       No; Available soon         • American Bureau of Shipping (ABS)       No; Available soon         • Bureau Veritas (BV)       No; Available soon <td></td> <td></td>		
NEMA (front)• Enclosure Type 4 at the front• Enclosure Type 4x at the frontYes• Enclosure Type 12 at the frontYesStandards, approvals, certificatesCE markCE markCULusYesFM approvalRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)Use in hazardous areas• ATEX Zone 2• ATEX Zone 22• IECEx Zone 2• IECEx Zone 2• ClLus Class I Zone 2, Division 2Yes• FM approval• Germanischer Lloyd (GL)• American Bureau of Shipping (ABS)• Bureau Veritas (BV)No; Available soon• Bureau Veritas (BV)		ID65
• Enclosure Type 4 at the frontYes• Enclosure Type 4x at the frontYes• Enclosure Type 12 at the frontYesStandards, approvals, certificatesCE markYescULusYesrM approvalYesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• IECEx Zone 22Yes• IECEx Zone 22Yes• Cluss I Division 2Yes• FM class I Division 2YesMarine approvalYes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		1 03
• Enclosure Type 4x at the frontYes• Enclosure Type 12 at the frontYesStandards, approvals, certificatesCE markYescULusYesFM approvalYesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 22Yes• IECEx Zone 22Yes• CLuss I Zone 2, Division 2Yes• Cluss I Division 2YesMarine approvalNo; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		Vec
• Enclosure Type 12 at the frontYesStandards, approvals, certificatesCE markYescULusYesFM approvalYesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• IECEx Zone 22Yes• IECEx Zone 22Yes• CULus Class I Zone 2, Division 2Yes• FM Class I Division 2Yes• Marine approvalYes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		
Standards, approvals, certificatesCE markYesCULusYesFM approvalYesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 2Yes• IECEx Zone 2Yes• IECEx Zone 2Yes• IECEx Zone 2Yes• CULus Class I Zone 2, Division 2Yes• FM Class I Division 2Yes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		
CE markYesCULusYesFM approvalYesRCM (formerly C-TICK)YesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 22Yes• IECEx Zone 2Yes• IECEx Zone 2Yes• IECEx Zone 2Yes• CULus Class I Zone 2, Division 2Yes• FM Class I Division 2Yes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		
cULusYesFM approvalYesRCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 2Yes• IECEx Zone 2Yes• IECEx Zone 2Yes• IECEx Zone 2, Division 2Yes• CULus Class I Zone 2, Division 2Yes• FM Class I Division 2Yes• Germanischer Lloyd (GL)No; Available soon• American Bureau of Shipping (ABS)No; Available soon• Bureau Veritas (BV)No; Available soon		Vee
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Marine approval         • Germanischer Lloyd (GL)       No; Available soon         • American Bureau of Shipping (ABS)       No; Available soon         • Bureau Veritas (BV)       No; Available soon		
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<ul> <li>American Bureau of Shipping (ABS)</li> <li>Bureau Veritas (BV)</li> <li>No; Available soon</li> <li>No; Available soon</li> </ul>		
Bureau Veritas (BV)     No; Available soon		
Det Norske Veritas (DNV)     No; Available soon		
	<ul> <li>Det Norske veritas (DNV)</li> </ul>	INO, AVAIIADIE SOON

<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	No
<ul> <li>Lloyds Register of Shipping (RRS)</li> </ul>	No; Available soon
<ul> <li>Lioyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	No; Available soon
<ul> <li>Nippor Raiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No
Chinese Classification Society (CCS)	No
Ambient conditions	INU
Ambient temperature during operation	0°C
• min.	45 °C
max.     Ambient temperature during storage/transportation	45 0
min.	-20 °C
• max.	60 °C
Relative humidity	00 C
Operation, max.	90 %; no condensation
Vibrations	
Vibration load in operation	10 m/s²
Vibration load during transport/storage	10 m/s <sup>2</sup>
Shock testing	
Shock load during operation	150 m/s²
<ul> <li>shock acceleration during storage/transport</li> </ul>	150 m/s <sup>2</sup>
Software	
Web browser	Yes; HTML5, CSS
PDF reader	Yes
configuration / header	
Configuration	
• Local	Yes
Remote	Yes; Via web page
Languages	
Online languages	
<ul> <li>Number of online/runtime languages</li> </ul>	3; german / english
Peripherals/Options	
USB memory	Yes; USB storage medium can be connected
Mechanics/material	
Enclosure material (front)	
Aluminum	Yes
Dimensions	
Width of the housing front	529 mm
Height of housing front	331 mm
Mounting cutout, width	513 mm
Mounting cutout, height	315 mm
Overall depth	73 mm
Weights	
Weight (without packaging)	7.2 kg
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