7KG9501-0AA31-0AA1

Data sheet

Measuring functions

DIMENSIONS 96MM X 96MM X 100MM 4 INPUTS FOR AC VOLTAGE MEASUREMENTS 4 INPUTS FOR AC CURRENT MEASUREMENTS 2 BINARY OUTPUTS 2 BINARY INPUTS WEB SERVER FOR PARAMETERIZATION AND VISUALIZATION NTP SYNCHRONIZATION CE CERTIFICATION AND UL LISTING PANEL MOUNTED INSTRUMENT WITH GRAPHICAL DISPLAY ETHERNET-SWITCHING INTERNAL MEMORY 2 GB GATEWAY FUNCTION ETHERNET INTERFACE AND COMMUNICATION PROTOCOL, RJ45 MODBUS TCP

| sampling frequency / per sampling cycle number of harmonics product function / phase angle measurement product function / setive power measurement yes product function / setive power measurement Yes product function / active power measurement Yes product function / apparent power measurement Yes product function / logic function Yes product function / logic function Yes accuracy class / of the measurement of the harmonic active yes accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte your quality functions power quality sasessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz yower quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 150 kHz power quality assessment function / voltage dip power quality assessment function / voltage function / yes power quality assessment function / voltage function / yes asymmetry power quality assessment function / detection of asymmetry power quality assessment function / detection of yes asymmetry power quality assessment function / detection of yes product funct | Measuring functions | |
|--|---|-----------|
| product function / phase angle measurement product function / reactive power measurement product function / reactive power measurement product function / reactive power measurement product function / apparent power measurement product function / apparent power measurement product function / querying of limit violations yes product function / logic function Product function / logic function Product function / measurement of the harmonic active product function / measurement of the harmonic active power lype of measured value detection / min./max. values yes type of measured value detection / men./max. values yes type of measured value detection / men./max. values yes accuracy class / of the measuring instrument / for measured variable reactive power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte Power Quality assessment function / transient detection/loging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / otelection of symmetry power quality assessment function / detection of symmetry power quality assessment function / detection of symmetry power quality assessment function / detection of yes symmetry power quality assessment function / measurement of the harmonic phase angle product function / overvoltage detection yes product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Pye of data format / for record / PODiff Yes type of data format / for record / PODiff Yes | sampling frequency / per sampling cycle | 10 240 Hz |
| product function / active power measurement yes product function / apearent power measurement Yes product function / apparent power measurement Yes product function / apparent power measurement Yes product function / apparent power measurement Yes product function / logic function Yes product function / measurement of the harmonic active power Yes product function / measurement of the harmonic active yes yes accuracy class / of the measuring instrument / for measured value detection / mean values Yes accuracy class / of the measuring instrument / for measured variable active power / act. to It C 6 2053-22 accuracy class / of the measuring instrument / for measured variable active power / act. to It C 6 2053-22 accuracy class / of the measuring instrument / for measured variable reactive power / act. to It C 6 2053-22 accuracy class / of the measuring instrument / for measured variable reactive power / act. to It C 6 2053-22 accuracy class / of the measuring instrument / for measured variable reactive power / act. to It C 6 2053-22 accuracy class / of the measuring instrument / for measured variable reactive power / act. to It C 6 2053-22 accuracy class / of the measuring instrument / for measured variable reactive power vality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz | number of harmonics | 63 |
| product function / reactive power measurement product function / apparent power measurement yes product function / apparent power measurement yes product function / logic function yes product function / measurement of the harmonic active power type of measured value detection / mean values accuracy class / of the measuring instrument / for measured variable eactive power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte Power Quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / voltage dip power quality assessment function / voltage dip power quality assessment function / detection of asymmetry power quality assessment function / detection of yes power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / foltage fluctuations power quality assessment function / measurement of the harmonic phase angle product function / or voltage variations and flicker / integrated / according to IEC 61004-415 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles File formats Type of data format / for record / COMTRADE Type of data format / for record / PODif Type of data fransmission / via CSV Yes | product function / phase angle measurement | Yes |
| product function / apparent power measurement yes product function / topurying of limit violations Yes product function / logic function mode of limit violations Yes product function / measurement of the harmonic active power yes power yes accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte Power Quality sasessment function / transient detection/logging power quality sasessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic plotsortion (THD) power quality assessment function / total Harmonic plotsortion (THD) power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / feetcting and yes product function / overvoltage variations and flicker / integrated / according to IEC 61000-4-30 product function / overvoltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles 2 048 File formats Type of data format / for record / COMTRADE Yes Type of data format / for record / PODif Yes Pype of data format / for record / PODif Yes Pype of data format / for record / PODif Yes Pype of d | product function / active power measurement | Yes |
| product function / querying of limit violations product function / logic function product function / reasurement of the harmonic active power type of measured value detection / min./max. values type of measured value detection / min./max. values yes accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC accuracy class / of the measuring instrument / for measured variable exterve power / acc. to IEC accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte Power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / Voltage dip power quality assessment function / detection of asymmetry power quality assessment function / detection of asymmetry power quality assessment function / detection of asymmetry power quality assessment function / detection of power quality assessment function / detection of asymmetry power quality assessment function / measurement of the harmonic phase angle product function / ovoltage dip power quality assessment function / measurement of the harmonic phase angle product function / for voltage detection Yes product function / ovoltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / PQDif Type of data format / for record / PQDif Type of data format / for record / PQDif Type of data transmission / via CSV Yes | product function / reactive power measurement | Yes |
| product function / logic function product function / measurement of the harmonic active power type of measured value detection / mean values type of measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte Power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip power quality assessment function / voltage dip power quality assessment function / offection of asymmetry power quality assessment function / detection of asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 yes product functior / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / PODIff Yes type of data format / for record / PODIff Yes type of data format / for record / PODIff Yes | product function / apparent power measurement | Yes |
| product function / measurement of the harmonic active power type of measured value detection / min./max. values type of measured value detection / mean values accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte Power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip power quality assessment function / detection of asymmetry power quality assessment function / detection of yes asymmetry power quality assessment function / detection of yes power quality assessment function / detection of yes power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 yes product function / overvoltage detection yes product function / overvoltage detection Yes product function / overvoltage detection Yes product function / overvoltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrume | product function / querying of limit violations | Yes |
| yes of measured value detection / min./max. values type of measured value detection / mean values accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity Power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip power quality assessment function / detection of asymmetry power quality assessment function / detection of asymmetry power quality assessment function / detection of power quality assessment function / woltage dip power quality assessment function / detection of symmetry power quality assessment function / detection of veltage function of voltage voltage voltage voltage voltage voltage voltage voltage v | product function / logic function | Yes |
| type of measured value detection / mean values accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity Power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip power quality assessment function / detection of asymmenty power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 product function / overvoltage detection product function / overvoltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles File formats Type of data format / for record / PQDif Yes type of data format / for record / PQDif Yes type of data format / for record / PQDif Yes type of data fransmission / via CSV Yes | | Yes |
| accuracy class / of the measuring instrument / for measured variable active power / acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity | type of measured value detection / min./max. values | Yes |
| measured variable active power 7 acc. to IEC 62053-22 accuracy class / of the measuring instrument / for measured variable reactive power storage capacity 2 Gbyte Power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / detection of asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 Yes product function / overvoltage detection yes cacuracy class / of the measuring instrument / acc. to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles 7 yes Type of data format / for record / PQDif Yes Yes Yes | type of measured value detection / mean values | Yes |
| measured variable reactive power storage capacity power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / total detection of asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product function / overvoltage detection product function / overvoltage variations and flicker / integrated / according to EC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / PQDif Yes Type of data format / for record / PQDif Yes Type of data fransmission / via CSV Yes | | 0,2\$ |
| Power Quality functions power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip Yes power quality assessment function / voltage dip Yes power quality assessment function / detection of asymmetry power quality assessment function / detection of disualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product function / overvoltage detection Yes product function / overvoltage detection Yes product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 caccuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles 2 048 File formats Type of data format / for record / PQDif Yes Type of data format / for record / PQDif Yes Type of data format / for record / PQDif Yes Type of data transmission / via CSV Yes | | 0,5 |
| power quality assessment function / transient detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip Yes power quality assessment function / detection of assymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 Yes product function / overvoltage detection Yes product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles 2 048 File formats Type of data format / for record / COMTRADE Yes Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes | storage capacity | 2 Gbyte |
| detection/logging power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip Yes power quality assessment function / detection of asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 product function / overvoltage detection Yes product function / overvoltage detection Yes rotegy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles File formats Type of data format / for record / COMTRADE Yes Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes No No No No No No Yes No No Yes Discrete Alice Alic | Power Quality functions | |
| voltage of harmonic components in the range 2 kHz 9 kHz power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip Yes power quality assessment function / detection of asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 Yes product function / overvoltage detection Yes product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Yes Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes | | Yes |
| voltage of harmonic components in the range 9 kHz 150 kHz power quality assessment function / Total Harmonic Distortion (THD) power quality assessment function / voltage dip Yes power quality assessment function / detection of asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 product function / overvoltage detection product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Type of data format / for record / PQDif type of data transmission / via CSV Yes | voltage of harmonic components in the range 2 kHz 9 | No |
| Distortion (THD) power quality assessment function / voltage dip power quality assessment function / detection of asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 product function / overvoltage detection product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Type of data format / for record / PQDif type of data transmission / via CSV Yes | voltage of harmonic components in the range 9 kHz 150 | No |
| power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 product function / overvoltage detection product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Type of data format / for record / PQDif type of data transmission / via CSV Yes Yes Yes Class A Class A Yes Yes Yes Yes | | Yes |
| asymmetry power quality assessment function / detecting and visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 product function / overvoltage detection product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Type of data format / for record / PQDif type of data transmission / via CSV Yes | power quality assessment function / voltage dip | Yes |
| visualization of voltage fluctuations power quality assessment function / measurement of the harmonic phase angle product feature / data evaluation according to EN 50160 Yes product function / overvoltage detection Yes product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles 2 048 File formats Type of data format / for record / COMTRADE Yes Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes | | Yes |
| harmonic phase angle product feature / data evaluation according to EN 50160 product function / overvoltage detection product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes | | Yes |
| product function / overvoltage detection product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Type of data format / for record / PQDif type of data transmission / via CSV Yes | | Yes |
| product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles Type of data format / for record / COMTRADE Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes | product feature / data evaluation according to EN 50160 | Yes |
| integrated / according to IEC 61000-4-15 accuracy class / of the measuring instrument / acc. to IEC 61000-4-30 number of sampling values / per 10 sampling cycles File formats Type of data format / for record / COMTRADE Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes | product function / overvoltage detection | Yes |
| number of sampling values / per 10 sampling cycles 2 048 File formats Type of data format / for record / COMTRADE Yes Type of data format / for record / PQDif Yes type of data transmission / via CSV Yes | | Yes |
| Type of data format / for record / COMTRADE Type of data format / for record / PQDif type of data transmission / via CSV Yes | | Class A |
| Type of data format / for record / COMTRADE Type of data format / for record / PQDif type of data transmission / via CSV Yes Yes | number of sampling values / per 10 sampling cycles | 2 048 |
| Type of data format / for record / PQDif type of data transmission / via CSV Yes | File formats | |
| Type of data format / for record / PQDif type of data transmission / via CSV Yes | Type of data format / for record / COMTRADE | Yes |
| type of data transmission / via CSV Yes | | Yes |
| Energy Management functions | | Yes |
| | Energy Management functions | |
| product function / active energy measurement Yes | | Yes |

| | V |
|---|--|
| product function / reactive energy measurement | Yes |
| product function / apparent energy measurement | Yes |
| energy management function / calculation of load profiles | Yes |
| energy management function / tariffs | Yes |
| energy management function / load factor (TOU) | Yes |
| number of tariffs | 8 |
| Measuring inputs | 4 |
| number of inputs / for voltage measurement | 4 |
| number of inputs / for current measurement | 4 |
| input voltage / between L and L / maximum input voltage / between L and N / maximum | 690 V 400 V |
| input current / maximum | 10 A |
| · | 10 A |
| Supply voltage | 110 220 1/ |
| supply voltage / at AC | 110 230 V 24 250 V |
| supply voltage / at DC | 42.5 69 Hz |
| measuring range frequency / at the measurement inputs type of voltage / of the supply voltage | AC/DC |
| Inputs / Outputs | ACIDO |
| | 0 |
| number of analog inputs | 2 |
| number of digital inputs | 0 |
| number of analog outputs number of digital outputs | 2 |
| | |
| Communication | No |
| protocol / is supported / IEC 61850 | No V |
| protocol / is supported / Modbus TCP | Yes |
| protocol / is supported / Modbus RTU | Yes |
| protocol / is supported / SNMP | Yes |
| protocol / is supported / OPC UA with PubSub communication function / Modbus RTU as master | Yes |
| number of ports / of the Ethernet interface | 1 |
| product function / gateway function for Modbus RTU | Yes |
| Cybersecurity | 163 |
| type of access control / role-based access control (RBAC) | Yes |
| product function / logging via Audit log | Yes |
| product function / logging via Security Eventlog | Yes |
| service / as web server / HTTPS | 165 |
| GCTVICE / AS WED SCTVCT / TTT TT G | Vac |
| product function / firmware identifier | Yes Yes |
| product function / firmware identifier Time synchronization | Yes Yes |
| Time synchronization | Yes |
| Time synchronization type of time synchronization | |
| Time synchronization type of time synchronization Mechanical Design | Yes NTP |
| Time synchronization type of time synchronization Mechanical Design width | Yes NTP 96 mm |
| Time synchronization type of time synchronization Mechanical Design width height | Yes NTP 96 mm 96 mm |
| Time synchronization type of time synchronization Mechanical Design width height depth | Yes NTP 96 mm 96 mm 100 mm |
| Time synchronization type of time synchronization Mechanical Design width height depth weight | Yes NTP 96 mm 96 mm 100 mm 550 g |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display | Yes NTP 96 mm 96 mm 100 mm 550 g Yes |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / rack mounting | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No No |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals 0.2 2.5 mm² |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class protection class IP / on the front | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No No Yes Screw terminals 0.2 2.5 mm² |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class protection class IP / on the front protection class IP / rear side | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals 0.2 2.5 mm² |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class protection class IP / on the front protection class IP / rear side Environmental conditions | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals 0.2 2.5 mm² IP40 IP20 |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class protection class IP / on the front protection class IP / rear side Environmental conditions ambient temperature / during operation | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals 0.2 2.5 mm² IP40 IP20 |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class protection class IP / on the front protection class IP / rear side Environmental conditions ambient temperature / during operation ambient temperature / during storage | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals 0.2 2.5 mm² IP40 IP20 |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class protection class IP / on the front protection class IP / rear side Environmental conditions ambient temperature / during operation ambient temperature / during storage Approval certification | NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals 0.2 2.5 mm² IP40 IP20 |
| Time synchronization type of time synchronization Mechanical Design width height depth weight product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section Degree of protection / protection class protection class IP / on the front protection class IP / rear side Environmental conditions ambient temperature / during operation ambient temperature / during storage | Yes NTP 96 mm 96 mm 100 mm 550 g Yes No No Yes Screw terminals 0.2 2.5 mm² IP40 IP20 |

Further information

Information- and Downloadcenter (catalogues, leaflets,...)

http://www.siemens.com/energy-automation

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KG9501-0AA31-0AA1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/7KG9501-0AA31-0AA1

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KG9501-0AA31-0AA1

Tender specifications

http://www.siemens.com/specifications

