



SETRON, measuring device, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, Modbus RTU/ASCII, power monitoring incl. THD, AC/DC, screw terminals

| Model  |                               |
|--|-------------------------------|
| product brand name   | SETRON                        |
| product designation  | multimeter                    |
| design of the product  | basic                         |
| product type designation   | 7KT PAC1600                   |
| Measurements   |                               |
| measuring procedure  |                               |
| • for voltage measurement  | TRMS                          |
| • for current measurement  | TRMS                          |
| type of measured value detection   | complete                      |
| voltage curve  | Sinusoidal or distorted       |
| measurable line frequency  |                               |
| • initial value  | 45 Hz                         |
| • full-scale value   | 66 Hz                         |
| operating mode for measured value detection automatic line frequency detection | Yes                           |
| operating mode for measured value detection                                    |                               |
| • set at 50 Hz   | No                            |
| • set to 60 Hz   | No                            |
| Supply voltage   |                               |
| design of the power supply   | Wide-range power supply       |
| type of voltage of the supply voltage  | AC/DC                         |
| supply voltage at AC   | 100 ... 240 V                 |
| supply voltage at DC   | 110 ... 250 V                 |
| Degree of protection protection class  |                               |
| protection class IP on the front   | IP40                          |
| Suitability  |                               |
| suitability for operation  | Standard mounting rail device |
| Product Functions  |                               |
| product function   |                               |
| • voltage measurement  | Yes                           |
| • current measurement  | Yes                           |
| • active power measurement   | Yes                           |
| • reactive power measurement   | Yes                           |
| • frequency measurement  | Yes                           |
| Display and operation  |                               |
| design of the display  | LCD                           |
| number of keys   | 4                             |
| Communication  |                               |
| transfer rate minimum  | 1 200 kbit/s                  |

|   |  |       |
|---|--|-------|
| transfer rate maximum   | 115 200 kbit/s                               |       |
| Fault limits  |  |       |
| reference condition for metering accuracy   | Acc. to IEC62053-21 and IEC62053-23          |       |
| Inputs Outputs  |  |       |
| number of digital inputs  | 0  |       |
| operating conditions for digital inputs external voltage supply   | No   |       |
| number of digital outputs   | 0  |       |
| type of switching output  | solid state                                  |       |
| type of electrical connection at the digital outputs  | screw-type terminals                         |       |
| Measuring inputs  |  |       |
| measurable supply voltage between (PE)N and L at AC maximum rated value   | 230 V  |       |
| measurable supply voltage between (PE)N and L at AC <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>                                       | 50 V<br>415 V                                |       |
| measurable supply voltage between the line conductors at AC maximum rated value   | 400 V  |       |
| voltage measuring range extension with external voltage transformers  | yes  |       |
| measuring category for voltage measurement  | CAT III                                      |       |
| measurable current <ul style="list-style-type: none"><li>• 1 at AC rated value</li><li>• 2 at AC rated value</li></ul>  | 5 A<br>5 A                                   |       |
| relative measurable current at AC <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>   | 0.5 %<br>120 %                               |       |
| current measuring range extension with external current transformers  | Yes  |       |
| zero point suppression for current measurement  | 25 mA  |       |
| apparent power consumption for current measurement <ul style="list-style-type: none"><li>• with measuring range 5 A per phase</li></ul>                               | 2.2 VA                                       |       |
| measuring category for current measurement  | CATIII                                       |       |
| Connections   |  |       |
| type of electrical connection <ul style="list-style-type: none"><li>• at the measurement inputs for voltage</li><li>• at the measurement inputs for current</li></ul> | screw-type terminals<br>screw-type terminals |       |
| Mechanical Design   |  |       |
| fastening method standard rail mounting   | Yes  |       |
| size of Power Monitoring Device   | 4MW  |       |
| height  | 90 mm  |       |
| width   | 71.6 mm                                      |       |
| depth   | 63 mm  |       |
| net weight  | 280 g  |       |
| mounting position   | any  |       |
| Environmental conditions  |  |       |
| ambient temperature during operation <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>  | -20 °C<br>60 °C                              |       |
| ambient temperature during storage <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>  | -30 °C<br>80 °C                              |       |
| relative humidity at 25 °C without condensation during operation maximum  | 80 %   |       |
| installation altitude at height above sea level maximum   | 2 000 m                                      |       |
| degree of pollution   | 2  |       |
| Certificates  |  |       |
| certificate of suitability as EC Declaration of Conformity  | yes  |       |
| Approvals Certificates  |  |       |
| General Product Approval  | Declaration of Conformity                    | other |

## Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=7KT1682>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KT1682>

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

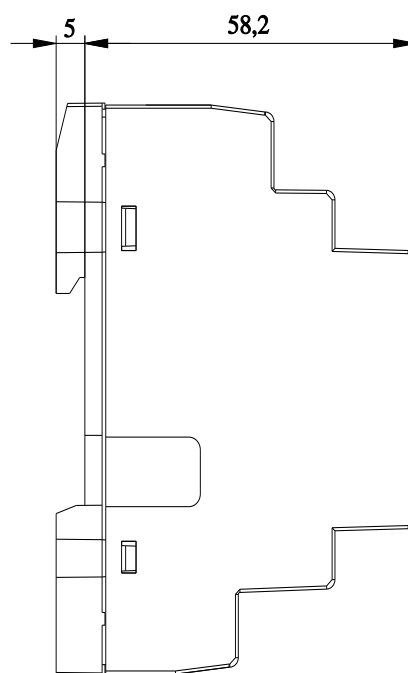
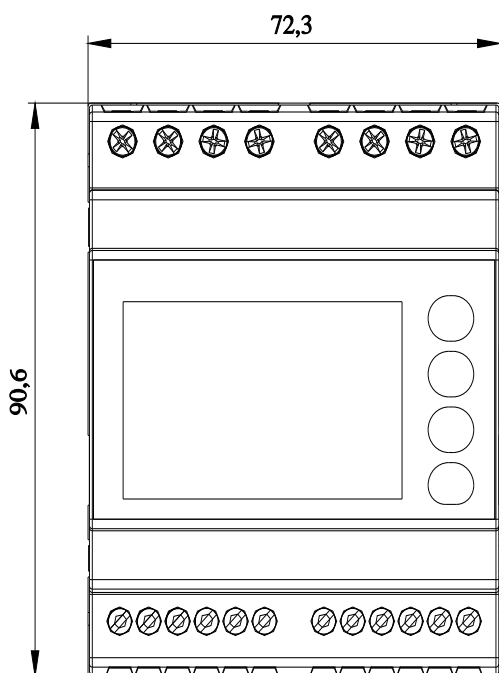
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7KT1682](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1682)

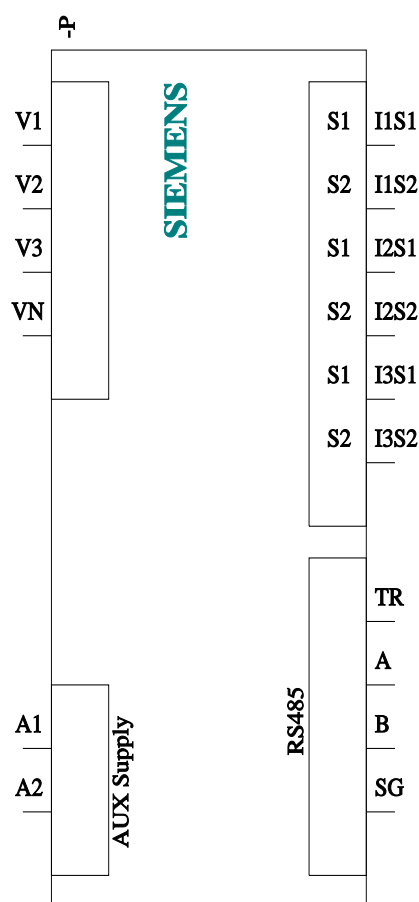
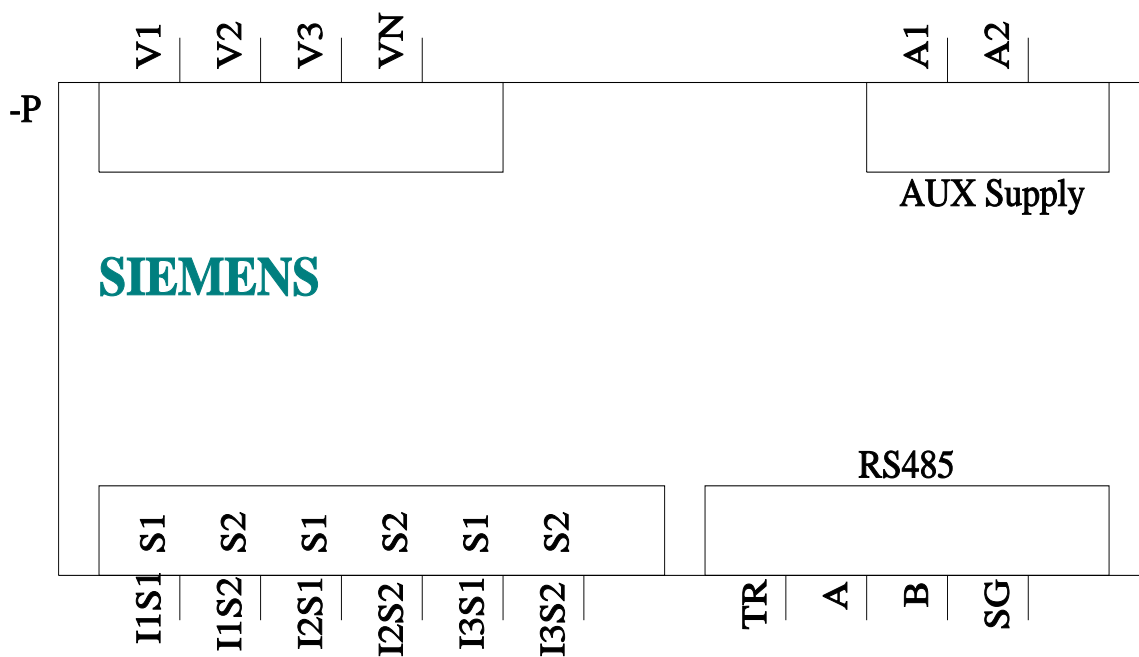
CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





last modified:

9/3/2023

