

SETRON, measuring instrument, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 5 A, Standard rail device, 3-phase, S0, apparent / active / reactive energy



| Model                            |                      |
|----------------------------------|----------------------|
| Product brand name               | SETRON               |
| Design of the product            | basic                |
| Product type designation         | Measuring instrument |
| Type of measured value detection | complete             |

| General technical data                        |                         |
|-----------------------------------------------|-------------------------|
| Operating mode for measured value detection   |                         |
| • automatic line frequency detection          | Yes                     |
| • set at 50 Hz                                | No                      |
| • set to 60 Hz                                | No                      |
| Pulse duration                                |                         |
| • initial value                               | 10 ms                   |
| • Full-scale value                            | 1 000 ms                |
| Voltage curve                                 | Sinusoidal or distorted |
| Measurable line frequency / initial value     | 45 Hz                   |
| Measurable line frequency / Full-scale value  | 66 Hz                   |
| Measuring procedure / for voltage measurement | TRMS                    |

Supply voltage

|                                                                     |                               |
|---------------------------------------------------------------------|-------------------------------|
| Type of voltage / of the supply voltage                             | self-powered                  |
| Consumed active power                                               |                               |
| • without expansion module / typical                                | 2.7 W                         |
| <b>Protection class</b>                                             |                               |
| Protection class IP                                                 |                               |
| • on the front                                                      | IP40                          |
| • Rear side                                                         | IP20                          |
| <b>Electricity</b>                                                  |                               |
| Measurable current / 2 / at AC / Rated value                        | 5 A                           |
| <b>Suitability</b>                                                  |                               |
| Suitability for operation                                           | Standard mounting rail device |
| Adjustable time period / minimum                                    | 10 ms                         |
| <b>Product function</b>                                             |                               |
| Product function                                                    |                               |
| • reactive power measurement                                        | Yes                           |
| • frequency measurement                                             | Yes                           |
| • voltage measurement                                               | Yes                           |
| • Current measurement                                               | Yes                           |
| • active power measurement                                          | Yes                           |
| <b>Display and operation</b>                                        |                               |
| Design of the display                                               | LCD                           |
| Number of keys                                                      | 3                             |
| <b>Inputs Outputs</b>                                               |                               |
| Input voltage / at digital input                                    |                               |
| • initial value for signal<1>-recognition                           | 85 V                          |
| • at DC / maximum                                                   | 240 V                         |
| • Full-scale value for signal<0> recognition                        | 240 V                         |
| Number of digital outputs                                           | 2                             |
| Number of digital inputs                                            | 1                             |
| Type of switching output                                            | solid state                   |
| Output current                                                      |                               |
| • at digital output / for signal <1> / maximum                      | 50 mA                         |
| • at the digital outputs / at DC / limited to 100 ms / maximum      | 50 mA                         |
| Operating conditions for digital inputs / external voltage supply   | Yes                           |
| Operating voltage / as output voltage / at DC / maximum permissible | 30 V                          |
| <b>Measuring inputs</b>                                             |                               |
| Measurable supply voltage                                           |                               |

|                                                              |        |
|--------------------------------------------------------------|--------|
| • between (PE)N and L / at AC / minimum                      | 187 V  |
| • between (PE)N and L / at AC / maximum                      | 264 V  |
| • between (PE)N and L / at AC / maximum rated value          | 230 V  |
| • between the outer conductors / at AC / maximum rated value | 400 V  |
| Measuring category / for voltage measurement                 | CATIII |
| Continuous current / at AC / maximum permissible             | 6 A    |
| Measuring category / for current measurement                 | CATIII |
| Zero-point suppression / for current measurement             | 10 mA  |
| Relative measurable current / at AC                          |        |
| • minimum                                                    | 1 %    |
| • maximum                                                    | 120 %  |
| Apparent power consumption / for current measurement         |        |
| • with measuring range 5 A / per phase                       | 6 V·A  |
| Measuring procedure / for current measurement                | TRMS   |
| Measurable current / 1 / at AC / Rated value                 | 5 A    |

## Connections

### Type of electrical connection

- |                                         |                      |
|-----------------------------------------|----------------------|
| • at the measurement inputs for voltage | screw-type terminals |
| • at the measurement inputs for current | screw-type terminals |

## Mechanical Design

|                                |         |
|--------------------------------|---------|
| Height                         | 90 mm   |
| Width                          | 71.6 mm |
| Depth                          | 63 mm   |
| Mounting position              | any     |
| Mounting type / panel mounting | No      |
| Net weight                     | 280 g   |

## Environmental conditions

|                                                                        |         |
|------------------------------------------------------------------------|---------|
| Degree of pollution                                                    | 2       |
| Installation altitude / at height above sea level / maximum            | 2 000 m |
| Relative humidity / at 25 °C / without condensation / during operation |         |
| • maximum                                                              | 80 %    |
| Ambient temperature                                                    |         |
| • during operation / minimum                                           | -25 °C  |
| • during operation / maximum                                           | 55 °C   |
| • during storage / minimum                                             | -25 °C  |
| • during storage / maximum                                             | 70 °C   |

## Certificates

Certificate of suitability

- Approval Russia

Yes

Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KT1672>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KT1672>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7KT1672](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1672)

**CAX-Online-Generator**

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

**Tender specifications**

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