

SENTRON, measuring device, 7KT PAC1600, LCD, L-N: 230 V, 63 A, strd rail instr., sing.-ph., S0 + MID, apparent/active/ reactive energy, self-powered, screw terminals



Model	
product brand name	SENTRON
Product designation	7KM PAC1600
Design of the product	basic
Product type designation	Measuring instrument
Type of measured value detection	complete

General technical data	
Size of Power Monitoring Device / company-specific	2MW
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	100 ms
• Full-scale value	100 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	
<ul style="list-style-type: none"> without expansion module / typical 	0.45 W
Protection class	
<ul style="list-style-type: none"> protection class IP / on the front 	IP40
<ul style="list-style-type: none"> Protection class IP / Rear side 	IP20
Current	
Measurable current	
<ul style="list-style-type: none"> 1 / at AC / Rated value 	63 A
<ul style="list-style-type: none"> 2 / at AC / Rated value 	63 A
Suitability	
Suitability for operation	Standard mounting rail device
Product function	
<ul style="list-style-type: none"> product function / reactive power measurement 	Yes
<ul style="list-style-type: none"> product function / frequency measurement 	Yes
<ul style="list-style-type: none"> product function / voltage measurement 	Yes
<ul style="list-style-type: none"> product function / current measurement 	Yes
<ul style="list-style-type: none"> product function / active power measurement 	Yes
Display and operation	
design of the display	LCD
number of keys	1
Communication	
Protocol	
<ul style="list-style-type: none"> is supported 	S0 + MID
Fault limits	
Reference condition / for metering accuracy	Acc. to IEC62053-21 and IEC62053-23
Inputs Outputs	
number of digital outputs	1
number of digital inputs	0
Digital output version	Static
Type of switching output	solid state
Type of electrical connection	
<ul style="list-style-type: none"> at the digital outputs 	screw-type terminals
Output current	
<ul style="list-style-type: none"> at digital output / for signal <1> / maximum 	50 mA
<ul style="list-style-type: none"> at the digital outputs / at DC / limited to 100 ms / maximum 	50 mA

Operating conditions for digital inputs / external voltage supply	No
Operating voltage / as output voltage / at DC / maximum permissible	30 V

Measuring inputs

Measurable supply voltage	
<ul style="list-style-type: none"> • between (PE)N and L / at AC / minimum • between (PE)N and L / at AC / maximum • between (PE)N and L / at AC / maximum rated value 	187 V 264 V 230 V
Measuring category / for voltage measurement	CATIII
Continuous current / at AC / maximum permissible	63 A
Measuring category / for current measurement	CATIII
Zero-point suppression / for current measurement	40 mA
Relative measurable current / at AC	
<ul style="list-style-type: none"> • minimum • maximum 	0.8 % 100 %
• apparent power consumption / for current measurement / with measuring range 5 A / per phase	6.6 V·A
Measuring procedure / for current measurement	TRMS

Connections

Type of electrical connection	
<ul style="list-style-type: none"> • at the measurement inputs for voltage • at the measurement inputs for current 	screw-type terminals screw-type terminals

Mechanical Design

Height	90 mm
Width	35.8 mm
Depth	63 mm
Mounting type / panel mounting	No
mounting position	any
net weight	148 g

Environmental conditions

Installation altitude / at height above sea level / maximum	2 000 m
Standard	
<ul style="list-style-type: none"> • for pulse emitter 	Standard / For Pulse Emitter
Relative humidity / at 25 °C / without condensation / during operation	
<ul style="list-style-type: none"> • maximum 	80 %
Ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum 	-25 °C

• maximum	55 °C
Ambient temperature / during storage	
• minimum	-25 °C
• maximum	70 °C

Certificates

• Certificate of suitability / Approval Russia	Yes
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General Product Approval	Declaration of Conformity
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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)
<http://www.siemens.com/lowvoltage/catalogs>

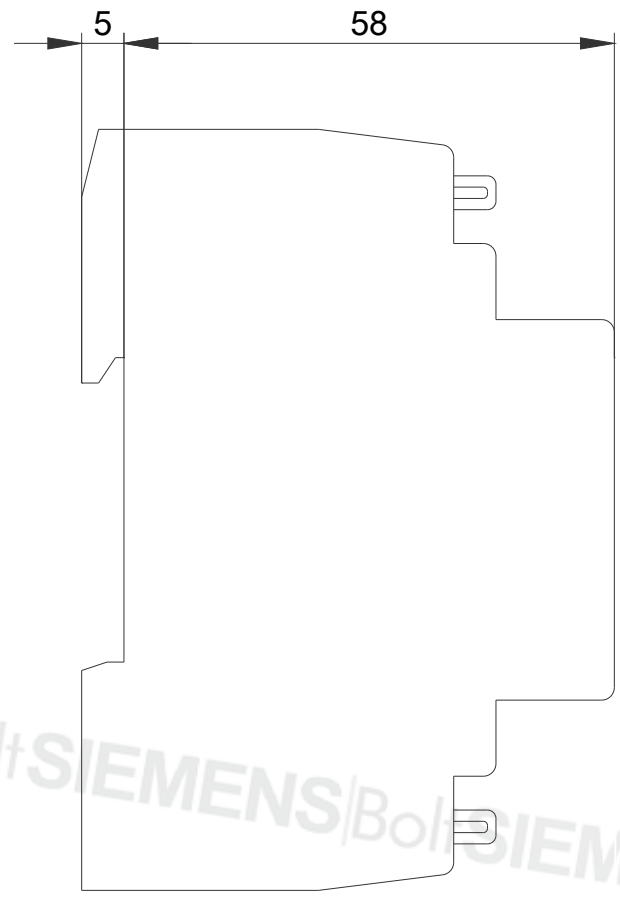
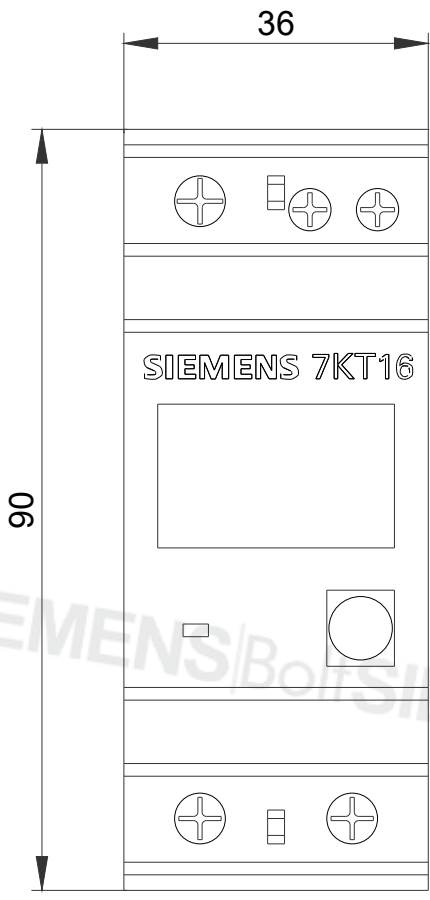
Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KT1656>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/7KT1656>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1656

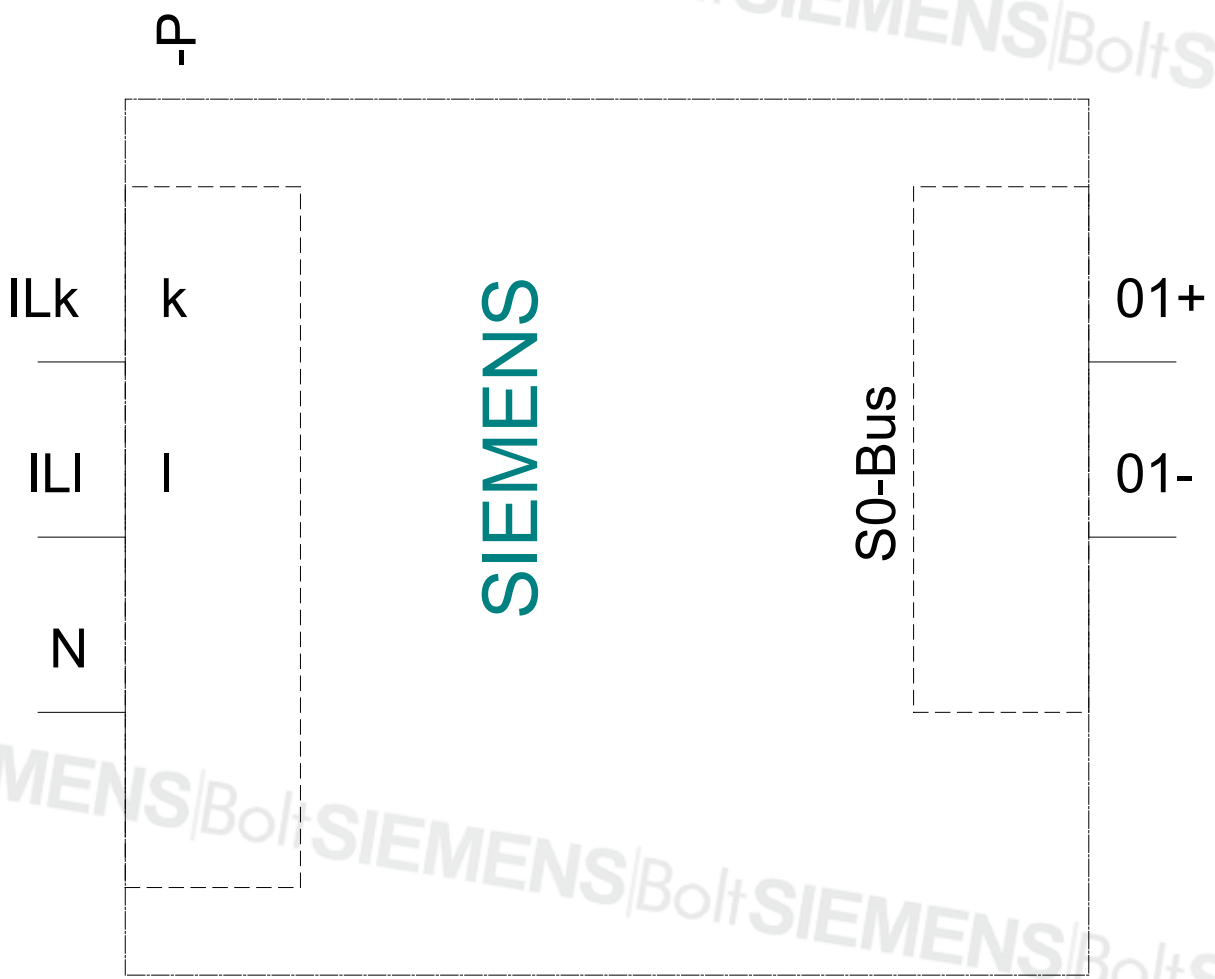
CAX-Online-Generator
<http://www.siemens.com/cax>

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



The SIEMENS logo is centered within a large rectangular frame. The logo consists of the word "SIEMENS" in a bold, teal-colored, sans-serif font. Above the logo, there is a smaller rectangular box, and below it, the text "S0-Bus" is centered. Below the text, there is another smaller rectangular box. The entire diagram is enclosed in a larger rectangular border with vertical lines extending from the top and bottom edges.

S0-Bus



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