7KM4220-0BA01-1EA0

Data sheet



SENTRON PAC4220, Power Monitoring Device with color graphic TFT display PMD-III acc. to IEC61557-12 active energy class 0.2 (class 0.2S acc. to IEC62053-22) 96 x 96 mm, 3-phase, 45 - 65 Hz Ue rated: 690/400 V Ie rated: x/1A or x/5A AC/DC wide-range power supply 95 to 250 V +-10% (AC), 110 to 270 V +-10% (DC) screw terminal connection control panel instrument with measurement of electrical variables apparent / active / reactive energy / cos phi / THDu / THDi / even and odd harmonics per phase up to 64.

Model	
product brand name	SENTRON
product designation	Measuring device for power system quality measurement
product type designation	7KM PAC4220
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	65 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	95 250 V
apparent power consumption of the power supply	9 VA
Degree of protection protection class	
protection class IP on the front	IP65
protection class IP of the terminal	IP20
operating resource protection class when installed	II
Suitability	
suitability for operation	Installation in stationary panels in closed rooms
Product Functions	
product function	
 voltage measurement 	Yes
 current measurement 	Yes
 active power measurement 	Yes
 reactive power measurement 	Yes
 power factor measurement 	Yes
 frequency measurement 	Yes
apparent energy/active energy/reactive energy	Yes
Display and operation	
design of the display	color graphics TFT

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height of the display	54 mm
width of the display	72 mm
color of the background of the display	white
illuminance of display backlight adjustable	Yes
time-controlled reduction of the illuminance of display backlight possible	Yes
display contrast adjustable	Yes
national language on the display screen is supported	ger, en, fr, spa, ita, por, tur, rus, chi, pol
number of keys	4
Communication	
transfer rate minimum	10 000 kbit/s
transfer rate maximum	100 000 kbit/s
number of interfaces according to Fast Ethernet	2
type of electrical connection of the fast Ethernet interface	2 x RJ45
protocol at the Ethernet interface is supported	MODBUS TCP
transfer rate 1 for Ethernet	10 Mbit/s
transfer rate 2 for Ethernet	100 Mbit/s
Fault limits	
reference condition for metering accuracy	according to IEC61557-12
formula for relative total measurement inaccuracy	
 for measured variable voltage 	+/- 0.2 %
 for measured variable current 	+/- 0.2 %
 for measured variable apparent power 	+/- 0.5 %
 for measured variable active power 	+/- 0.2 %
 for measured variable reactive power 	+/- 0.5 %
 for measured variable output factor 	+/- 0,5 %
for measured variable active energy	Class 0.2 according to IEC61557-12 and/or class 0.2S according to IEC62053-22
 for measured variable reactive energy 	class 0.5 acc. to IEC61557-12 or IEC62053-23
for measured variable THD	+/- 2 %
Inputs Outputs	
number of digital inputs	2
number of digital inputs design of the switching input	2 electronic, passive
number of digital inputs design of the switching input type of electrical connection at the digital inputs	electronic, passive screw-type terminals
number of digital inputs design of the switching input type of electrical connection at the digital inputs operating conditions for digital inputs external voltage supply	electronic, passive screw-type terminals Yes
number of digital inputs design of the switching input type of electrical connection at the digital inputs operating conditions for digital inputs external voltage supply input voltage at digital input at DC maximum	electronic, passive screw-type terminals Yes 30 V
number of digital inputs design of the switching input type of electrical connection at the digital inputs operating conditions for digital inputs external voltage supply input voltage at digital input at DC maximum number of digital outputs	electronic, passive screw-type terminals Yes 30 V
number of digital inputs design of the switching input type of electrical connection at the digital inputs operating conditions for digital inputs external voltage supply input voltage at digital input at DC maximum number of digital outputs type of switching output	electronic, passive screw-type terminals Yes 30 V 2 electronic, passive
number of digital inputs design of the switching input type of electrical connection at the digital inputs operating conditions for digital inputs external voltage supply input voltage at digital input at DC maximum number of digital outputs type of switching output digital output version	electronic, passive screw-type terminals Yes 30 V 2 electronic, passive switching or pulse output function
number of digital inputs design of the switching input type of electrical connection at the digital inputs operating conditions for digital inputs external voltage supply input voltage at digital input at DC maximum number of digital outputs type of switching output digital output version operating voltage as output voltage at DC maximum permissible	electronic, passive screw-type terminals Yes 30 V 2 electronic, passive switching or pulse output function 30 V
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20 V 828 V yes 1.62 MΩ CAT III 1 A 5 A 1 % 120 % Yes 0 10 % 0.3 VA CATIII 1x (0.2 6 mm²), 2x (0.2 1.5 mm²) 1x (0.2 4 mm²), 2x (0.5 2.5 mm²) 1x (0.2 6 mm²), 2x (0.5 2.5 mm²) 1x (0.2 4 mm²), 2x (0.5 2.5 mm²) 1x (0.2 4 mm²), 2x (0.5 2.5 mm²)
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1x (0.2 4 mm²), 2x (0.5 2.5 mm²)
1x 24 to 10
12 24 10 10
screw-type terminals
screw-type terminals
No
size 96
96 mm
96 mm
56 mm
51 mm
345 g
vertical
-25 °C
55 °C
-25 °C
70 °C
75 %
2 000 m
2
yes
J-0-0





Confirmation







other **Environment**

Environmental Confirmations Environmental Con-firmations Confirmation **Miscellaneous**

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=7KM4220-0BA01-1EA0

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

https://support.industry.siemens.com/cs/ww/en/ps/7KM4220-0BA01-1EA0

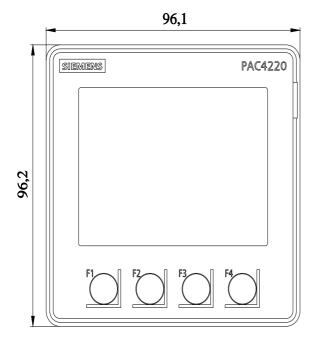
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM4220-0BA01-1EA0

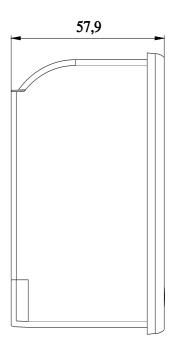
CAx-Online-Generator

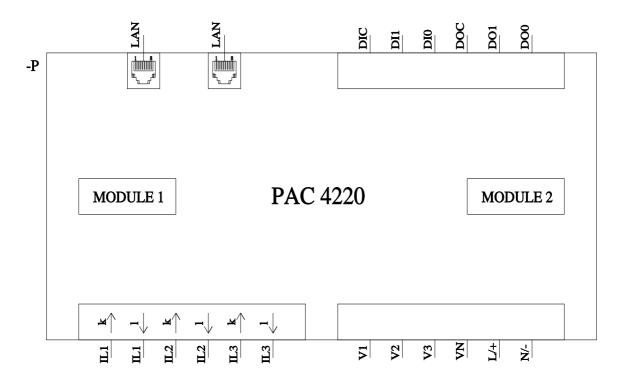
http://www.siemens.com/cax

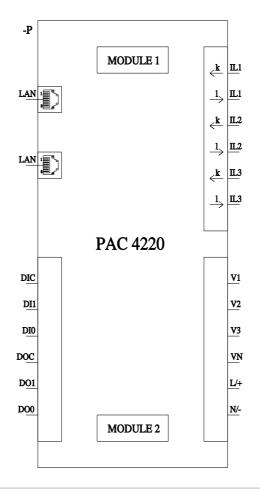
Tender specifications

http://www.siemens.com/specifications









last modified: 6/14/2024 🖸