



SETRON, measuring device, 7KM PAC3200, LCD, L-L: 690 V, L-N: 400 V, 5 A, 3-phase, Modbus TCP, optional Modbus RTU / PROFINET / PROFIBUS, apparent/ active/reactive energy, class 0.5 acc. to IEC61557-12 or class 0.5s acc. to IEC62053-22, wide-range pwr sup. unit AC/DC, screw terminals

Model	
product brand name	SETRON
Measurements	
measuring procedure	
• for voltage measurement	RMS
• 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 ... 240 V
supply voltage at DC	110 ... 340 V
Degree of protection protection class	
protection class IP on the front	IP65
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
• frequency measurement	Yes
Display and operation	
design of the display	LCD
height of the display	54 mm
width of the display	72 mm
color of the background of the display	white
national language on the display screen is supported	ger, en, fr, spa, ita, por, tur, chi

number of keys	4
Communication	
transfer rate minimum	10 000 kbit/s
transfer rate maximum	10 000 kbit/s
number of interfaces according to Fast Ethernet	1
type of electrical connection of the fast Ethernet interface	RJ45 (8P8C)
protocol at the Ethernet interface is supported	MODBUS TCP
Fault limits	
reference condition for metering accuracy	according to IEC62053-22 and IEC62053-23
formula for relative total measurement inaccuracy	
<ul style="list-style-type: none"> for measured variable voltage for measured variable current for measured variable output factor for measured variable active energy for measured variable reactive energy 	+/- 0.3 % +/- 0.2 % +/- 0,5 % Cl. 0.5 acc. to... IEC62053-22 Class 2 according to IEC61557-12 and/or IEC62053-23
Inputs Outputs	
number of digital inputs	1
number of digital outputs	1
digital output version	switching or pulse output function
operating voltage as output voltage at DC maximum permissible	30 V
output current	
<ul style="list-style-type: none"> at digital output with signal <0> maximum at digital output for signal <1> maximum 	0.2 mA 27 mA
internal resistance at the digital outputs	55 Ω
standard for pulse emitter	according to IEC62053-31
pulse duration	
<ul style="list-style-type: none"> initial value full-scale value 	30 ms 500 ms
adjustable time period minimum	10 ms
switching frequency at digital output maximum	17 Hz
property of the output short-circuit proof	Yes
measuring category for digital signals	CATII
Measuring inputs	
measurable supply voltage between (PE)N and L at AC maximum rated value	400 V
measurable supply voltage between (PE)N and L at AC	
<ul style="list-style-type: none"> minimum maximum 	40 V 480 V
measurable supply voltage between the line conductors at AC maximum rated value	690 V
measurable supply voltage between the line conductors at AC	
<ul style="list-style-type: none"> minimum maximum 	70 V 831 V
voltage measuring range extension with external voltage transformers	yes
line conductors and neutral conductors internal resistance for voltage measurement	1.05 MΩ
measuring category for voltage measurement	CAT III
measurable current	
<ul style="list-style-type: none"> 1 at AC rated value 2 at AC rated value 	1 A 5 A
relative measurable current at AC	
<ul style="list-style-type: none"> minimum maximum 	10 % 120 %
current measuring range extension with external current transformers	Yes
zero point suppression for current measurement	0.1 ... 10 %
measuring category for current measurement	CATIII
Connections	

type of connectable conductor cross-sections	
<ul style="list-style-type: none"> at the measurement inputs for voltage solid 	1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)
<ul style="list-style-type: none"> at the measurement inputs for voltage finely stranded with core end processing 	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
<ul style="list-style-type: none"> at the measurement inputs for voltage for AWG cables solid 	2x 20 to 14
<ul style="list-style-type: none"> at the measurement inputs for current solid 	1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)
<ul style="list-style-type: none"> at the measurement inputs for current finely stranded with core end processing 	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
<ul style="list-style-type: none"> at the measurement inputs for current for AWG cables solid 	2x 20 to 14
type of electrical connection	
<ul style="list-style-type: none"> at the measurement inputs for voltage 	screw-type terminals

Mechanical Design

size of Power Monitoring Device	size 96
height	96 mm
width	96 mm
depth	56 mm
installation depth	51 mm
mounting position	vertical

Environmental conditions

ambient temperature during operation	
<ul style="list-style-type: none"> minimum 	-10 °C
<ul style="list-style-type: none"> maximum 	55 °C
ambient temperature during storage	
<ul style="list-style-type: none"> minimum 	-25 °C
<ul style="list-style-type: none"> maximum 	70 °C
relative humidity at 25 °C without condensation during operation maximum	95 %
installation altitude at height above sea level maximum	2 000 m

Certificates

certificate of suitability as EC Declaration of Conformity	IEC 61010-1: 2001 (2nd Ed.) with Corr. 1, EN 61010-1: 2001 (2nd Ed.) and DIN EN 61010-1:2002 with "Berichtigung 1"
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Approvals Certificates

General Product Approval	EMV
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Metrological Approval



Confirmation



Test Certificates	other	Environment
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[Type Test Certificates/Test Report](#)

[Confirmation](#)



[Environmental Conformations](#)

[Environmental Conformations](#)



Further information

Information on the packaging

<https://www.modulplc.com/?s=7KM2112-0BA00-3AA0>

Information for data generation and storage

<https://www.modulplc.com/?s=7KM2112-0BA00-3AA0>

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

<https://www.modulplc.com/?s=7KM2112-0BA00-3AA0>

Industry Mall (Online ordering system)

<https://www.modulplc.com/?s=7KM2112-0BA00-3AA0>

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

<https://www.modulplc.com/?s=7KM2112-0BA00-3AA0>

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

<https://www.modulplc.com/?s=7KM2112-0BA00-3AA0>

CAX-Online-Generator

<https://www.modulplc.com/?s=7KM2112-0BA00-3AA0>

Tender specifications



