SIEMENS

Data sheet



SENTRON PAC3120 LCD 96X96 mm Power Monitoring Device Controll panel instrument for electrical values protocol: Modbus RTU with graphics display U rated input: 690/400V 45-65Hz IE rated input: X/1A oder X/5A AC Power supply: 100 ... 250 V +-10 % AC/DC screw connections

Model			
product brand name	SENTRON		
product designation	multimeter		
design of the product	basic		
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	100 250 V		
supply voltage at DC	100 250 V		
Degree of protection protection class			
protection class IP on the front	IP65		
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		

illuminance of display backlight adjustable	No
time-controlled reduction of the illuminance of display backlight possible	Yes
display contrast adjustable	Yes
national language on the display screen is supported	play screen is supported de, en, fr, spa, ita, por, tur, chi, pol
number of keys	4
Fault limits	
reference condition for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23
formula for relative total measurement inaccuracy	
 for measured variable voltage 	+/- 0,2 %
 for measured variable current 	+/- 0,2 %
 for measured variable active power 	+/- 0.5 %
 for measured variable reactive power 	+/- 1 %
 for measured variable output factor 	+/- 0,5 %
 for measured variable active energy 	Cl. 0.5 acc. to IEC62053-22
 for measured variable reactive energy 	Class 2 according to IEC61557-12 and/or IEC62053-23
Inputs Outputs	
number of digital inputs	2
type of electrical connection at the digital inputs	screw-type terminals
operating conditions for digital inputs external voltage supply	Yes
input voltage at digital input at DC maximum	30 V
input current at digital input	
initial value for signal<1>-recognition	7 mA
number of digital outputs	2
type of switching output	bidirectional
digital output version	switching or pulse output function
operating voltage as output voltage at DC maximum permissible	30 V
type of electrical connection at the digital outputs	screw-type terminals
output current • at the digital outputs at DC limited to 100 ms maximum	130 mA
internal resistance at the digital outputs	55 Ω
standard for pulse emitter	according to IEC62053-31
pulse duration	
• initial value	30 ms
• full-scale value	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 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	
• minimum	11.5 V
• maximum	480 V
measurable supply voltage between the line conductors at AC maximum rated value	690 V
voltage measuring range extension with external voltage transformers	yes
line conductors and neutral conductors internal resistance for voltage measurement	1.5 ΜΩ
measuring category for voltage measurement	CATIII
measurable current	
1 at AC rated value	1 A
2 at AC rated value	5 A
relative measurable current at AC	
• minimum	1 %
• maximum	100 %
current measuring range extension with external current transformers	Yes

/pe terminals /pe terminals				
•				
•				
•				
pe terminals				
	vertical			
	ЕМС	Declaration of Conformity		
	FAC			

Declaration of Conformity

other



Miscellaneous

Further information

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=7KM3120-0BA01-1DA0

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

https://support.industry.siemens.com/cs/ww/en/ps/7KM3120-0BA01-1DA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM3120-0BA01-1DA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







