

SGE-PLC1000

Concentrator for the PLC/PRIME system



Description

SGE-PLC1000 is the main device of Smart Metering systems in **CIRCUTOR** with PRIME protocol. The main function of **SGE-PLC1000** is to manage the mains by **CIRWATT** electricity meters or other meters with PRIME technology. This data collection is performed using the power lines from the distribution network as a medium, which is known as 'PLC Communications ' (Power Line Carrier). The protocol used by the PLC concentrator is the PRIME standard.

The **SGE-PLC1000** concentrator is installed in the transformer station providing an Ethernet communications port, which offers the option to access information and interact with the system by accessing the website of the concentrator or through Web Service. The concentrator also has an RS485 or RS232 port, for service functions.

The modular format of the concentrator, allows to add on the same DIN rail, the LV Supervisor, whose main function is totalize the consumption, so that enables the management of the transformer station losses.

A variant of the **SGE-PLC1000** concentrator, is the **SGE-PLC50** with reduced management capacity since it is oriented to outdoors transformers, where there is up to 50 meters.

Application

Being a Plug & Play system, **CIRWATT** energy meters or other meters with PRIME technology, are automatically detected by the **SGE-PLC1000** concentrator. By managing tasks fully configurable by the user, through the WEB page, lets you download all data registered by meters, such as load profiles, billing closures or events. The **SGE-PLC1000** concentrator also offers the possibility to send this information automatically to an ftp server.

By the LV Supervisor, the system can offer specific functions to manage electricity demand, like loss control and fraud detection. All these options allow preventive maintenance and monitoring in detail the behavior of the electricity distribution network.

Features

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Power supply					
Working voltage	100 V a 240 Vac				
Consumption	~7 W y ~13 VA				
PLC - Power Line Communications					
Туре	OFDM with repetitive system (PRIME)				
Hardware	CENELEC A				
Connection	4 wire (3 phases + neutral)				
Protection Degree	П				
Data Memory					
Туре	FLASH (industrial SD card)				
Capability	512 Mb				
Battery					
Туре	Lithium				
Position	Internal				
Working Life	> 20 years @ 25 °C				
Communications					
Port Type	Ethernet				
Connector	RJ-45				
Protocol	IEEE 802.3				
Speed	10/100 Mbits				
Port Type	Serie				
Connector	RS-485				
Environmental Conditions					
Working Temperature Range	-20 +70 °C				
Storage Temperature Range	-40 +85 °C				
Humidity	95% (without condesation)				
Maximum Height	2000 m				
Standard					
IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 62052-11, IEC/CISPR 22, UNE-EN 50470.					





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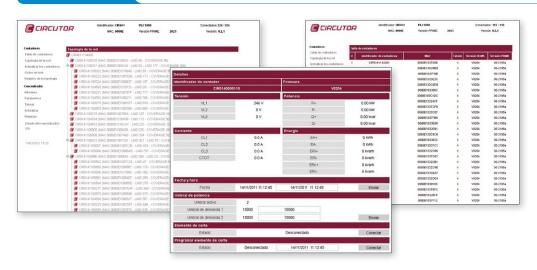


References

Туре	Code	Power Supply	PLC	PLC Band	Ethernet	
SGE-PLC50	[c] Q45405	100 230 V _{ac}	PRIME	PLC A	•	
SGE-PLC-1000	[c] Q45408	100 230 V _{ac}	PRIME	PLC A	•	
Additional modules for modular PLC concentrator						
SGE-BT	[c] Q45407	-	PRIME	PLC A	-	
SGE-PLC1000S (*)	[c] Q45406	100 230 V _{ac}	PRIME	PLC A	•	

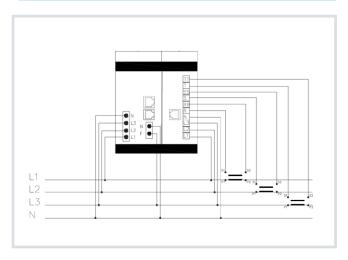
^(*) Additional Modular Concentrator for the second transformer.

Screens



- List of conected devices
- Circuit breaker management
- Monitoring electrical instantaneous values
- Concentrator configuration

Connections



Dimensions

