

POWER QUALITY ANALYZER

POWER QUALITY ANALYZER AND DATA LOGGER



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POWER QUALITY ANALYZER

Description

Electrical Power Quality Meters (PQM) are essential items for assessing whether the supply of electrical energy to an installation or specific equipment is suitable for the application. Through a systematic analysis of PQM, for example, overheating and accelerated wear of bearings and motors can be mitigated or eliminated, consequently reducing technical losses and asset replacement.

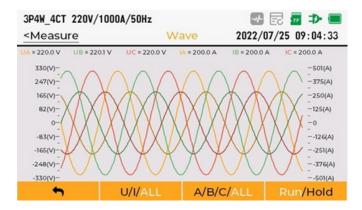
Advantages:

- The Power Quality Analyzer features a USB port for integration with a computer.
- The Power Quality Analyzer allows for the choice between conventional CTs and flexible clamps for measurement and enables applications in production lines and in the field.
- Expandable internal flash memory up to 64GB for up to 1 year of data stored in continuous measurement.

This Power Quality Analyzer is an ideal meter for field measurements, from which it is possible to assess the situation of the electrical system in detail, whether industrial or power, to assist in decision-making aimed at increasing system quality and reliability.

Operation

The HVEX qualimeter is a multifunction meter capable of collecting various data regarding the operation of the grid, either in real-time or stored for a period of time. This equipment is connected to the grid through 5 voltage sensors (1 per phase + 1 neutral + 1 grounding) and 4 Rogowski current sensors (1 per phase + 1 neutral), allowing for the measurement or recording of voltage, current, power, energy, harmonic distortions, phasor diagrams, unbalance, demand, waveform (oscillography). The recorded files can be exported in CSV format for further computational analysis.

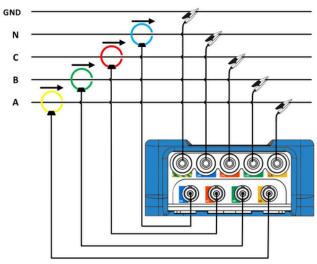




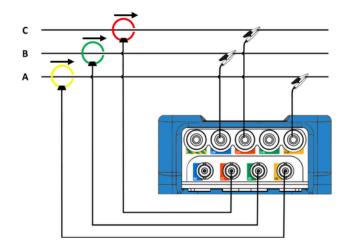
3P4W_4CT 220V/1000A/50H <measure< th=""><th>Phaso</th><th>r</th><th>2022/07/25</th><th></th></measure<>	Phaso	r	2022/07/25	
90		А	В	с
120 60	U-rms(V)	219.96	220.10	220.00
150 30	U-angle(°)	0.00	239.96	120.18
	I-rms(A)	200.030	199.996	200.013
210 330	l-angle(°)	300.15	179.95	60.13
240 270 300	UI-angle(°)	59.85	60.01	60.05

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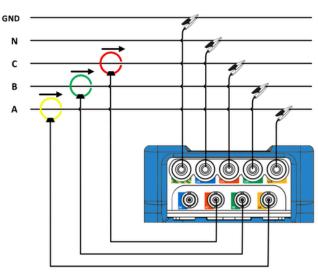
Connection schemes



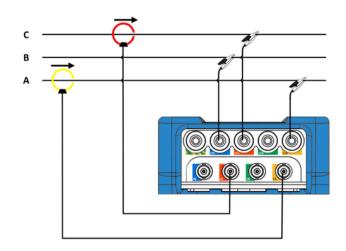




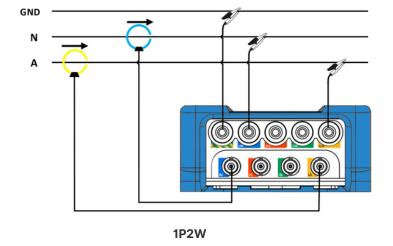


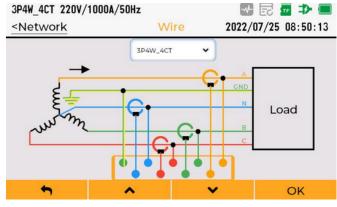






3P3W_2CT





Connection selection screen

General		
Meter Category	CAT III 600V	
IP Code	IP30	
Display size	3,97 "	
Туре	IPS Display	
Resolution	480 x 800 p	
Power Supply		
Input	5 VDC 2 A	
Battery	Lithium, rechargeable Model Nº 18650 4000mAh	
Battery working time	≥ 6h	
Battery charging time	≤ 5h	
Energy economy	Adjustable brightness and screen activity time	
Storage		
Туре	TF Card	
Storage capacity	32 Gb	
Export	U Disc (FAT32); CSV	
Communication		
Interface	RJ45 (Ethernet)	
Protocol	Modbus - TCP	
USB	USB Port	

	Voltage
	Current
	Active power
	Reactive power
	Apparent power
Classical measured quantities	Power factor
	Active energy
	Reactive energy
	Apparent energy
	Active demand
	Reactive demand
	Fundamental voltages and currents
	Voltage and current harmonics up to 35th order
	Powers
	Power factor
Quantities defined by IEEE Std. 1459-2010	Voltage and current harmonic distortions
	Voltage and current unbalances
	Harmonic pollution factor
	Load unbalance factor
	Positive, negative and zero sequence components of voltages and currents

Range and accuracy of input signals	
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Voltage	Range	0 VAC to 600 VAC
	Accuracy	0,2%
Current	Range	0 to 420 mVAC (Depends on the sensor)
	Accuracy	0,2% + Sensor accuracy
Frequency	Range	45 Hz to 60 Hz
	Accuracy	± 0,001 Hz
Power factor	Range	-1 to +1
	Accuracy	± 0,005
Power accuracy	Active	0,5%
	Reactive	1%
	Apparent	0,5%
Energy accuracy	Active	0,5%
	Reactive	1%
	Apparent	0,5%

Environmental Conditions	
Operating Temperature	-20 °C to +55 °C
Storage Temperature	-40 °C to +70 °C
Operating humidity	> 90%
Storage humidity	> 95% (without condensation)
Altitude	≤ 2000m
Dimensions	
Height	215 mm
Width	130 mm
Length	60 mm
Weight	850 g

We provide solutions for improvement of eletrical energy generation, transmission and distribution efficiency, quality and reliability. With a highly specialized and experienced team in research, delvelopment and innovation, HVEX develops tailor-made solutions for brazilian and foreign markets. Wide range of products with solutions focused on signal transduction, measurement, monitoring and protection.







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