

# SD720 Series High Performance Power Analyzers

## ■ Introduction

SD720 is portable instrument for grid running quality detection and analysis. Can provide the harmonic analysis and power quality and other data analysis, and is equipped with a large-capacity memory, capable of long-term data collection and detection for the grid, equipped with PC software, uploads the collected data to a computer for easy kinds of analyzes.



## ■ Features

1. The instrument is specially used to detect the power quality problems such as waveform distortion, harmonic content, voltage fluctuation and flicker and three-phase unbalance in the power grid. At the same time, it also has the function of electrical parameter test and vector analysis
2. Can accurately measure voltage, current, active power, reactive power, phase Angle, power factor, frequency and other electrical parameters
3. The vector of voltage and current under test can be displayed, and the user can get the correct connection of metering equipment by analyzing the vector.
4. The current is measured by means of a clip-on transformer. Because the operator does not need to disconnect the current loop when using the current transformer, the measurement can be conducted conveniently and safely. According to the user's measurement range can be selected with different ranges of clamp table
5. Measurement and analysis of the ac power quality supplied by the utility grid to the client: frequency deviation, voltage deviation, voltage fluctuation, flicker, three-phase voltage allowable unbalance and grid harmonics

6. It can display single-phase voltage and current waveform and three-phase voltage and current waveform at the same time.
7. Load fluctuation monitoring: measurement and analysis of power quality fluctuations caused by various electrical equipment in different operating states. Timing recording and storage of voltage, current, active power, reactive power, apparent power, frequency, phase and other changes in power parameters
8. Power equipment adjustment and dynamic monitoring of the operation process, to help users solve the problems in the process of power equipment adjustment and operation.
9. It can test and analyze the dynamic parameters of reactive compensation and filter device in power system and make quantitative evaluation on its function and technical indexes
10. Different storage intervals can be set to continuously store data according to the set time interval
11. With the powerful data management software, real-time sampling data can be directly uploaded to the background management computer, in the background for more comprehensive and faster processing

## ■ Parameters

input characteristics	Voltage test range: 0 ~ 200V ~ 800V, Automatic gear switching	
	Current test range	Clamps (3kinds) : 5A/25A (standard) ; 100A/500A (optional) ; 400A/2000A (optional)
		Range of phase Angle test: 0 ~ 359.99°
		Range of test frequency: 45 ~ 65Hz
		Number of voltage channels: three channels (UA、 UB、 UC)
		Current Channels: 3 channels (IA、 IB、 IC)
		Max frequency of harmonic analysis: 63times

		Maximum 1 min interval continuous storage cycle: 18months
<b>accuracy</b>	Electric	
	Parameter part	voltage: $\pm 0.2\%$
		frequency: $\pm 0.01\text{Hz}$
		current、 power: $\pm 0.5\%$
		Phase position: $\pm 0.2^\circ$
	Power	The fundamental voltage permits error $\leq 0.5\% \text{F.S.}$
	quality	The fundamental current permits error $\leq 1\% \text{F.S.}$
	part	Test error of phase difference between fundamental wave voltage and current: $\leq 0.2^\circ$
		Measurement error of harmonic voltage content ratio: $\leq 0.1\%$
		Measurement error of harmonic current content ratio: $\leq 0.2\%$
Three phase voltage unbalance error: $\leq 0.2\%$		
Voltage deviation error: $\leq 0.2\%$		
	current deviation error: $\leq 0.2\%$	
<b>Working temperature</b>	- 10°C ~ +40°C	
<b>Charging power supply</b>	AC220V、 frequency: 45Hz ~ 55Hz	
<b>Power dissipation of host</b>	$\leq 3\text{VA}$	
<b>Max working time of battery</b>	$\leq 10\text{h}$	
<b>insulation</b>	The insulation resistance of the voltage and current input to the housing $\leq 100\text{M}\Omega$	
	The working power input is subjected to power frequency 1.5kv (effective value)	

	between the housings, which lasts 1 minute
volume	420mm×340mm×230mm
weight	2.0Kg

■ Accessory

Serial Number	Name	Amount
1	Mainframe	one
2	Charger	one
3	Test line (one red, one yellow, one black, one green)	four
4	Communication line	one
5	Current clamp	one
6	Crocodile clip	one
7	Aluminum alloy case	one
8	Specification	one
9	Inspection Report	one
10	Certification	one



Optional Current Clamps

