

SIRIUS89N

MULTIFUNCTION INSTRUMENT FOR TESTS ON ELECTRIC SYSTEMS AND MAINS ANALYSES IN SINGLE-PHASE SYSTEMS

SIRIUS89N is a multifunction instrument which allows carrying out all necessary tests on civil and industrial electric systems in compliance with IEC 60364 and a complete analysis of the mains quality on single-phase systems (harmonics, voltage anomalies, power checks). SIRIUS89N is also used to analyze environmental measurements (measurements of temperature, humidity, lighting and noise). The instrument also carries out loop/line impedance measurements and calculates the assumed short-circuit current with high-resolution 0.1mΩ with the aid of the optional accessory IMP57. In this way, it is possible to obtain precise measurement results, also near MT/BT transformation cabs, where the inductive effect due to the presence of the transformer is significant, and therefore also allows correctly choosing the appropriate protections in industrial systems. On the instrument, it is possible to select preset recordings to carry out measurements in the most common situations in a very simple way. Thanks to the PC interface and to the supplied software it is possible to download the data of each measurement carried out, for a practical final print.

FUNCTIONS

Electric system test in compliance with standard IEC/EN61557-1

Continuity of protective conductors with 200mA
Insulation with test voltage 50, 100, 250, 500, 1000VDC
Tripping time and current on RCDs type A, AC, General and Selective up to 500mA
Total earth resistance without RCD tripping
Line/loop P-N, P-P, P-PE impedance, also with high resolution (0.1mΩ) with optional accessory IMP57
Earth resistance by voltamperometric method with probes
4-wire method ground resistivity measurement
Phase sequence
Leakage current (with optional clamps HT96U)

Recording and analysis

Electric parameter measurement (voltage, current, power, energy, PF, frequency) on single-phase or three-phase balanced systems

Possible implementation for generic three-phase systems

Recording of electric parameters with selectable integration period from 5s to 60min
Harmonic analysis of voltages and currents up to the 49th component with calculation of THD%
Analysis of voltage anomalies (dips, peaks) with 10ms resolution
Numeric display, waveforms and histograms of harmonic analysis
5 selectable recordings with preset parameters
4-quadrant measurements

Recording and analyses of environmental parameters

Air temperature measurement (°C / °F)
Relative humidity measurement (%UR)
Lighting measurement (Lux)

General characteristics

Internal memory with 2Mbytes capacity
Optical interface for connection to the PC
Graphic LCD display with backlight
Power supply: 6x1.5V batteries type AA LR6
Safety: IEC/EN61010-1
Measurement category: CAT III 600V
Size (LxWxH): 225x165x105mm
Weight (with batteries): 1.2kg

ACCESSORIES

Standard

	Code
3-terminal cable with SHUKO plug	C2033X
Set of 4 cables + 4 alligator clips + 2 test leads	KITGSC5
Set of 4 cables + 4 metal earth probes	KITTERNE
Flexible transducer for 0÷1000A, 0÷3000A AC currents Ø 174mm	HTFLEX33D
Power supply adapter 230VAC 50Hz /12VDC	A0050
PC Windows software + optical / USB cable	TOPVIEW2006
Carrying bag	BORSA2051
ISO9000 calibration certificate	
User manual	

Optional

Transducer for 0÷5A, 0÷100A AC currents Ø 20mm	HT4005N
Transducer for 0÷200A AC currents Ø 40mm	HT4005K
Transducer for 0÷1A, 0÷100A, 0÷1000A AC currents Ø 54mm	HT96U
Transducer for 0÷10A, 0÷100A, 0÷1000A AC currents Ø 54mm	HT97U
Transducer for 0÷1000A AC currents Ø 54mm	HT98
Transducer for 0÷200A, 0÷2000A AC currents Ø 70mm	HP30C2
Transducer for 0÷3000A AC currents Ø 70mm	HP30C3
Transducer for 0÷1000A AC/DC currents Ø 50mm	HT98U
Flexible clamp AC 3000A, diameter 274mm	HTFLEX35
Temperature/Humidity probe	HT52/05
Illuminance (Lux) probe	HT53/05
Magnetic adapter for connection to screw heads	606-IECN
Accessory for Loop Impedance with high resolution	IMP57
AC/DC 115V/50-60Hz mains adapter - US plug	A0053
Free hands kit	SP-0400



IMP57- Accessory for measuring Loop Impedance with high resolution

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