RJ8921 AC/DC Power Measuring Instrument

Product Description

RJ8921 AC/DC Power Measuring Instrument (referred to as the measuring instrument) with ADI high-performance ARM71xx series controller as the core, using pure resistance sampling, no distortion, suitable for electrical parameter testing of small power appliances, widely used in single-phase power equipment, voltage, current, power, power factor, frequency, electrical energy, time and other electrical parameters measurement, measurement of a wide range of LED liquid crystal display, operation, simple and practical, standard with serial communication, simple and practical, standard with serial communication.

Key Features

- High measurement accuracy of 0.2 class;
- AC and DC dual use testing;
- Dedicated range design: maximum voltage range of 600V, minimum voltage range of 150V, maximum current range of 20A, minimum current range of 1A, to meet the power testing needs of various types of small appliances voltage, current ratio setting function, easy to expand the measurement range;
- Wide bandwidth measurement: AC and DC signals are dual-use, suitable for non-standard waveform load measurement;
- Voltage, current, power, power factor over-limit alarm function, to meet the site to quickly identify abnormal product needs;
- RS-232 or RS-485 serial communication port for easy test automation and data transfer;
- Portability: small chassis design, compact and delicate, light weight, standard size, to meet the

requirements of engineering test system installation.

Specification

Model	RJ8921
Measuring	Single-phase
Measured parameters	Voltage U, Current I, Active Power P, Reactive Power Q, Apparent Power S, Power Factor λ, Phase Angle φ, Voltage Frequency f, Electrical energy Wh, accumulation time, positive and negative peak voltage Upeak+/Upeak-, positive and negative peak current Ipeak+/lpeak-, 50th harmonic analysis, voltage distortion Uthd, current distortion lthd
Voltage measurement	150.00V/300.00V/600.00V/AUTO (automatic)
Current rated range	500.00mA/1.0000A/20.000A/AUTO(automatic)
Voltage accuracy range	1.50V~660.00V
Current accuracy range	2.00mA～22.000A
Voltage/Current measurement accuracy	23±5℃ DC：±(0.2%rdg.+0.2%f.s.) 15Hz≤f<45Hz:±(0.1%rdg.+0.2%f.s.) 45Hz≤f≤66Hz:±(0.1%rdg.+0.1%f.s.) 66Hz<f≤1kHz:±(0.1%rdg.+0.2%f.s.)
Active power measurement accuracy	23±5℃ DC：±(0.3%rdg.+0.2%f.s.) 15Hz≤f<45Hz:±(0.3%rdg.+0.2%f.s.) 45Hz≤f≤66Hz:±(0.1%rdg.+0.1%f.s.) 66Hz<f≤1kHz:±(0.2%rdg.+0.2%f.s.)
Active power accuracy range	0.003W~12.000kW
Active power resolution	0.001W
Range of power consumption	0.0500～1.0000
Power factor accuracy	±0.002
Frequency measurement	DC,15Hz~1kHz
Frequency measurement	±(0.1%rdg.)
Phase angle	D/G00.00～90.00

Peak Factor	1.000～400.0
Integral range	0~99999999Wh/Ah
Integration Accuracy	±1% when accumulating up to 1kWh/Ah
Integration time	0~999 hours, 59 minutes, 59 seconds
Integration time accuracy	±1 second/hour
Voltage/Current Ratio	1~9999
FFT spectrum	(optional)50th harmonic analysis, voltage distortion Ut electrical distortiontn
Alarm Function	5 groups, voltage, current, power, power factor upper/lower limit, threshold setting
Control Interface	RS232(optional: RS485),switching quantity(optional)
Operating	0℃～40℃，20%RH～75%RH
Power Supply	AC220V，50/60Hz
Net weight	3.7kg
External Dimension	213mm×88mm×386mm (W×H×D) without foot, foot height 15mm
Attachment	1 instruction manual, 1 power cord (1.5 meters), 1 communication cable (1.5 meters)