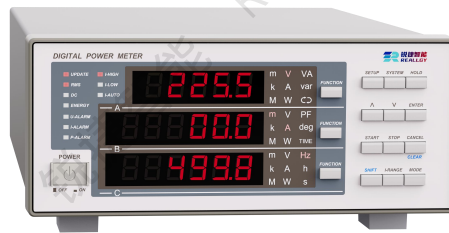


# RJ8921P AC/DC Power Measuring Instrument



## Product Description

RJ8921P AC/DC Power Measuring Instrument (referred to as the measuring instrument) with ADI high-performance ARM71 series controller as the core, using pure resistance sampling, no distortion, suitable for AC/DC true RMS measurement, 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 3-window LED bright 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;
- TTRMS Value RMS AC/DC test;
- Minimum measurement current of 2mA, and it can realize measurement of standby power consumption;
- Fast measurement speed, the maximum refresh rate could reach 200 ms;
- Voltage, current ratio setting function, easy to extend the measurement range;
- Voltage, current, power overrun sound and light alarm function, which can meet the need to quickly identify abnormal products in the field;
- RS-232 or RS-485 serial communication port for easy test automation and data transfer;
- Beautifully designed appearance, small size and light weight.

National Service hotline: 4008-515-616

No.38 Longfei Road, Chengyang District, Qingdao

Official website: [www.ruijie-ate.com](http://www.ruijie-ate.com)

## Specification

Model	RJ8921P
Measuring channel	Single-phase
Measured parameters	Voltage U, current I, active power P, reactive power Q, apparent power S, power factor $\lambda$ , phase angle $\varphi$ , voltage frequency f, electric energy Wh, electric energy timing Time
Peak factor at full scale	1.6
Voltage rated range	600V
Current rated range	5A card: 1A/5A 20A card: 1A/20A 50A card: 1A/50A
Voltage accuracy range	AC/DC:3~600V
Current accuracy range	AC/DC:1mA~1A/40A(Option:0.1mA~100mA/5A)
Voltage/Current measurement accuracy	DC, 45Hz~65Hz:±(0.1%rdg.+0.1%f.s.)
Active power measurement accuracy	DC ± (0.1%rdg.+0.1%f.s.) PF>0.5: ±(0.1%rdg.+0.1%f.s.) PF≤0.5: ±(0.25%rdg.+0.25%f.s.)
Reactive power	PF=0:±(0.25%rdg.+0.25%f.s.)
Active power resolution	0.001W
Power Factor Range	±(0.100~1.000)
Power factor accuracy	±0.01 (Both voltage amplitude and current amplitude should be greater than 10% of the corresponding range)
Frequency measurement range	DC,45Hz~65Hz
Frequency measurement accuracy	±(0.1%rdg.) (Voltage amplitude should be greater than 10% of the range)
Electrical energy range	0~999999MWh
Electrical energy Accuracy	PF>0.5:±(0.1%rdg.+0.1%f.s.) PF<0.5:±(0.25%rdg.+0.25%f.s.)
Electrical energy timing	999 hours, 59 minutes, 59 seconds (±0.05%)
Electrical Energy Timing Accuracy	±(0.05%rdg.)
Voltage/Current Ratio	1~2000
Data update cycle	0.25,0.5,1[s]

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Alarm Function	5 groups, voltage, current, power upper/lower limit, threshold setting
Control Interface	RS232 (optional RS485) PLC (optional)
Operating Environment	23±5°C,30%RH~75%RH
Power Supply	AC220V,50/60Hz
Weight	3.7kg
External Dimension	213mm×88mm×386mm (W×H×D) excluding the feet height, the feet height is15mm
Opening size	210×85(W×H)mm
Accompanying documents and Accessories	1 instruction manual, 1 power cord (1.5 meters), 1 communication cable (1.5 meters)