

# Process Calibrator

## Model PY821

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### Special features

- Precision of 0.02%, 0.05% ;
- Two mutually isolated channels, support synchronized measurement and output;
- Super protection function: waterproof grade IP67, any signal end misconnection 220V automatic protection;
- Measurement / output: voltage, current, frequency, resistance, of which the current output supports active and passive;
- Can provide manual step, auto step, 0~100% step and slope output function;
- White LED backlight with manual backlight adjustment and automatic power off function, suitable for on-site use;
- Provide DC24V circuit power supply for on-site debugging;



**PY 821 Process Calibrator**

### Description

Py821 multifunctional process calibrator is a high-precision handheld signal measurement/output instrument, which can simultaneously measure and output voltage, current, resistance, frequency, thermocouple, RTD and other industrial process signals, plus external high-precision intelligent pressure module can be used for on-site calibration of pressure transmitters.

It can replace the current signal source, voltage signal source, resistance box, electronic potential difference meter, frequency meter and other measurement and calibration instruments. Mainly used in industrial field signal calibration, fault diagnosis; also suitable for chemical industry, military industry and all kinds of research institutes, laboratory signal measurement and calibration.

# Specifications

Basic information	
Power supply	6 x 7 batteries or AC adapter
Housing	
Dimensions	200 mm*967 mm*47 mm with protection cap
protective cover	Gray Silicone Protective Case
Ambient conditions	-20...70°C with air humidity ≤95%r.h.
Weight	650 g

## Measured Parameter

Measured Parameter			
Functionality	Range	Accuracy	
		0.02%	0.05%
Voltage	0~60.000V(±30V)	0.02%+2	0.05%+2
Current	0~24.000mA(±24mA)	0.02%+2	0.05%+2
Millivolt	-15.000mV~80.000mV 80.00mV~125.00mV	0.02%+2	0.05%+2
Resistance (2-wire/ 3-wire)	0.00Ω~440.00Ω 400.0Ω~3200.0Ω	0.15Ω 1.0Ω	0.25Ω 1.5Ω
Resistance (4-wire)	0.00Ω~440.00Ω 400.0Ω~3200.0Ω	0.10Ω 0.5Ω	0.15Ω 1.0Ω
Frequency	1.000Hz~99.999Hz 100.00Hz~999.99Hz 1000.0Hz~9999.9Hz 10.000kHz~99.999kHz	0.01%+1	0.02%+1
Thermocouple	J, K, T, E, R, S, B, N	0.02	0.05
Thermal Resistance	Pt100, Pt1000, Cu50, Cu100	0.02	0.05

# Output Parameter

Output Parameter			
Functionality	Range	Accuracy	
		0.02%	0.05%
Voltage	0~10.000V	0.02%+2	0.05%+2
Active Current	0~24.000mA	0.02%+2	0.05%+2
Passive Current	0~24.000mA	0.02%+2	0.05%+2
Millivolt	-15.000mV~99.999mV 100.00mV~125.00mV	0.02%+2	0.05%+2
Resistance	0.00Ω~440.00Ω 400.0Ω~3200.0Ω	0.15Ω 0.5Ω	0.25Ω 1.0Ω
Frequency	0.20Hz~200.00Hz 200.00Hz~2000.0Hz 2.000kHz~20.000kHz	0.01%+1	0.02%+1
Thermocouple	J, K, T, E, R, S, B, N	0.02	0.05
Thermal Resistance	Pt100, Pt1000, Cu50, Cu100	0.02	0.05