

# PR9112 Intelligent Pressure Calibrator



## I. Features

- LCD Screen with Backlight
- Built-in DC24V Power Supply, can be used to Calibrate Pressure Transmitters
- Automatic Temperature Compensation
- Data Storage
- 6 digit Display
- Graphical Pressure Percentage Display
- Automatic Over-pressure Alarm
- With Current, Voltage Measurement
- With Switching Value Measurement
- The HART Intelligent Pressure Transmitter can be Calibrated
- Communication Method: RS232
- CE Certificate

## II. Specifications

### ■ Pressure Unit

mmH<sub>2</sub>O, inH<sub>2</sub>O, mmHg, inHg, psi, kPa, MPa, Pa, mbar, bar, kgf/cm<sup>2</sup>

### ■ Pressure Measurement

Pressure range: (-0.1~250)MPa (refer to selection table)

Accuracy: ±0.02% F.S, ±0.05% F.S

■ **Data Storage Function**

Storage capacity: 30 files in total, 50 records/files

■ **Resolution**

6 digit display, 4 or 5 digits display can be switched

■ **Peak Value Record**

Automatically record the maximum and minimum values during pressure measurement

■ **Others Function**

Temperature measurement, countdown leak detection measurement, DC24V timing output

■ **Electrical measurement specifications**

Item	Range	Resolution	Accuracy
Current Measurement	(-30~30)mA	0.1μA	±(0.01%R.D+0.003%F.S)
Voltage Measurement	(-30~30)V	0.1mV	±(0.01%R.D +0.003%F.S)
Voltage Output	DC24V	/	±0.5V
Switch Value	A group of on-off measurements		

■ **Parameter**

Item	Specification
Dimensions	Φ120mm×50mm×183mm
Communication Interface	Three-core special aviation plug
Weight	0.8kg
Pressure Connector	M20×1.5 male, Φ4mm quick fittings(Differential pressure type)
Electrical Measurement Connector	Φ2mm banana plug
Power supply	Rechargeable lithium battery
Working Time of Battery	60 hours(24V without load)
Charging Time	About 4 hours
Ambient Temperature of Operation	(-20~50)°C
Relative Humidity of Operation	<95%
Storage Temperature	(-30~80)°C

Ordering information: PR9112S pressure calibration software (optional)

Pressure range selection: refer to pressure range selection table of "PR9112 Intelligent Pressure Calibrator"

### III. Pressure of Regular Gauges

Item	Pressure Range	Medium	Accuracy
1	(-100~0) kPa	Gas	0.02/0.05
2	(0~60) Pa	Gas	0.5
3	(0~250) Pa	Gas	0.5
4	(0~1) kPa	Gas	0.05/0.1
5	(0~2) kPa	Gas	0.05/0.1
6	(0~2.5) kPa	Gas	0.05/0.1
7	(0~5) kPa	Gas	0.05/0.1
8	(0~10) kPa	Gas	0.05/0.1
9	(0~16) kPa	Gas	0.05/0.1
10	(0~25) kPa	Gas	0.05/0.1
11	(0~40) kPa	Gas	0.05/0.1
12	(0~60) kPa	Gas	0.05/0.1
13	(0~100) kPa	Gas	0.02/0.05
14	(0~160) kPa	Gas / liquid	0.02/0.05
15	(0~250) kPa	Gas / liquid	0.02/0.05
16	(0~400) kPa	Gas / liquid	0.02/0.05
17	(0~600) kPa	Gas / liquid	0.02/0.05
18	(0~1) MPa	Gas / liquid	0.02/0.05
19	(0~1.6) MPa	Gas / liquid	0.02/0.05
20	(0~2.5) MPa	Gas / liquid	0.02/0.05
21	(0~4) MPa	Gas / liquid	0.02/0.05
22	(0~6) MPa	Gas / liquid	0.02/0.05
23	(0~10) MPa	Gas / liquid	0.02/0.05
24	(0~16) MPa	Gas / liquid	0.02/0.05
25	(0~25) MPa	Gas / liquid	0.02/0.05
26	(0~40) MPa	Gas / liquid	0.02/0.05
27	(0~60) MPa	Gas / liquid	0.02/0.05
28	(0~100) MPa	Gas / liquid	0.02/0.05
29	(0~160) MPa	Gas / liquid	0.1
30	(0~250) MPa	Gas / liquid	0.1

## IV. Pressure of Compound Gauges

Item	Pressure Range	Medium	Accuracy
1	±60Pa	Gas	0.5
2	±160Pa	Gas	0.5
3	±250Pa	Gas	0.2/0.5
4	±500Pa	Gas	0.1/0.2
5	±1kPa	Gas	0.05/0.1
6	±2kPa	Gas	0.05/0.1
7	±2.5kPa	Gas	0.05/0.1
8	±5kPa	Gas	0.05/0.1
9	±10kPa	Gas	0.05/0.1
10	±16kPa	Gas	0.05/0.1
11	±25kPa	Gas	0.05/0.1
12	±40kPa	Gas	0.05/0.1
13	±60kPa	Gas	0.05/0.1
14	±100kPa	Gas	0.02/0.05
15	(-100~160) kPa	Gas / liquid	0.02/0.05
16	(-100~250) kPa	Gas / liquid	0.02/0.05
17	(-100~400) kPa	Gas / liquid	0.02/0.05
18	(-100~600) kPa	Gas / liquid	0.02/0.05
19	(-0.1~1) MPa	Gas / liquid	0.02/0.05
20	(-0.1~1.6) MPa	Gas / liquid	0.02/0.05
21	(-0.1~2.5) MPa	Gas / liquid	0.02/0.05

- (1) Absolute pressure is available for some ranges;
- (2) Range of automatic temperature compensation: (-10~50)°C;
- (3) The pressure transmission medium must be non-corrosive.