

Beijing Spake Technology Co.,Ltd.



**Beijing Spake Technology Co., Ltd** is one of the most professional manufacturers of calibration instruments in China with 24 years 'experience. We have been successfully manufactured Pressure/ Temperature calibration instruments such as high accuracy Digital Pressure Gauge, Pressure Calibrator, Pressure Calibration Comparator Pumps as well as Process Calibrator and Temperature Calibrator Dry Blocks. So far, "SPMK" brand calibration instruments have been used in over 100 countries worldwide and enjoy good reputation.

With the corporate philosophy of "Accurate Calibration, Perfect Service" going forward, we will continue developinghighqualitycalibrationinstruments with the best service to more and more customers worldwide.









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## **SPMK221G Automatic Pressure Calibrator** – **2022 NEW**

With function of pressure generation, pressure measurement, electrical signal measurement/output, and HART communication functions.

It is suitable for the calibration of on-site pressure instruments.

SPMK221G adopts full intelligent control, which can quickly and accurately output the set pressure. SPMK221G has convenience and practicability interface, which can help the staff to efficiently, high-quality and safely complete the rapid calibration of pointer instruments, pressure transmitters, pressure switches and other instruments.



#### **Main Features**

- Built-in automatic pressure generating source;
- Built-in rechargeable battery;
- Box-type instrument, easy to carry;
- Multifunction including HART communication/24V DC Supply/Temperature Compensation Automatically/Pressure Switch Testing/ mA/V testing/0-22mA Output/External Pressure Module;
- Friendly user interface, icon management menu, graphic help interface, AC and DC available.

#### **Technical Parameter**

Pressure control fluctuation	0.005%FS
Display screen:	5.6 x LCD Screen (640×480); 4/5/6 digit display optional
Pressure port	2pcs x M20×1.5 F, 1/4NPT, 1/4BSP, 1/2NPT, 1/2BSP optional.
Dimension	(385×298×196) mm
Weight	Pneumatic type 11.0kg; Hydraulic type 16.0kg

	Range	Resolution	Accuracy
Voltage measurement	(-30~30)V	0.1mV	±(0.01%RD+0.005%FS)
Current measurement	(-30~30)mV	0.1μΑ	±(0.01%RD+0.005%FS)
On-off detection	If the switch has the inspection voltage, the voltage range is (3.0~24.0) V		
Current output	(0∼22)mV	1μA	±(0.02%RD+0.005%FS)
DC24V	(24±0.5)V, Maximum load capacity 50mA		

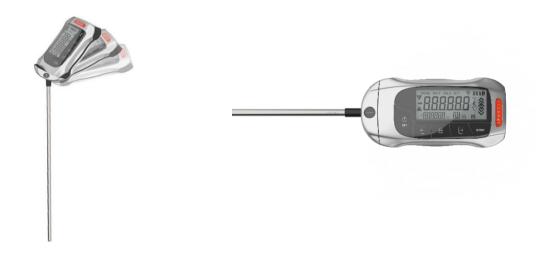
#### **Ordering Information**

SPMK221G	Vacuum	Pneumatic	Pneumatic	Hydraulic
Pressure Range	(-90~100)kPa	(-0.9~25)bar	(-0.9~40)bar	(0∼600)bar
Inner Module 1	(-90~100)kPa	$(0\sim25)$ bar	$(0\sim40)$ bar	(0∼600)bar
Inner Module 2	(-16∼16)kPa	(-90∼250)kPa		



## SPMK361 Precision Digital thermometer-2022 NEW

SPMK361 handheld precision digital thermometer has the characteristics of high accuracy and good stability of various indicators, which is a precision temperature measuring instrument tailored for the industry temperature measurement. Temperature measurement range is  $(-80 \sim 300)^{\circ}$ C, It can directly display the temperature value through the LCD screen, and has rich human-computer interaction and communication functions, which is very suitable for laboratory and field use.



#### **Main Features**

- Multifunctional and easy to carry;
- Accuracy of +-0.05°C over full range;
- LCD display Resolution of 0.001 °C, the screen can be turned;
- Data storage function, recording time can be selected (2 ~ 3600) seconds;
- $\blacksquare$  Display temperature in  $^{\circ}\mathbb{C}$  and  $^{\circ}\mathbb{F}$ ;
- Low power consumption, can work for 1000 hours when wireless communication is closed;
- Collecting frequency is optional  $(1 \sim 3)$  seconds.

#### **Technical Parameter**

Range	(-40 ~ 160)°C、 (-80 ~ 300)°C	Relative humidity	(15 ~ 85)%
Power supply	lithium battery, USB power supply	Size	(123×60×30) mm
Annual stability	0.05℃	Sensor size	300 / 500mm
Usage temperature	(-10 ~ 50)°C	Weight	Around 400g



### **SPMK991T Automatic Pressure Calibration Bench-2022 NEW**

SPMK991T series intelligent pressure source system mainly includes 3 types: SPMK991T/Vacuum (-95-0) kpa; Pneumatic (0-40) bar; Hydraulic (0-700) bar, which can provide stable pressure automatically during the pressure calibration process. It is widely used in calibrating pressure (differential pressure) transmitters, precision (ordinary) pressure gauges, vacuum gauges, electrical contact pressure gauges and other pressure instruments.

SPMK991T Pressure Source System is an ideal instrument for pressure measurement and calibration, which can be widely used in calibration laboratories of petroleum, chemical, electric power, metallurgy, national defense, measurement and instrument manufacturing industries.





#### **Main Features**

- Auto pressure generation, dynamic balance tech, Instant pressure stabilization without leakage;
- High-precision pressure regulating valve;
- Three instruments can be tested at one time;
- Safe, reliable, solid and durable;
- Small noise and easy to operate.

#### **Technical Parameter**

SPMK991T/Vacuum	-95-0 kpa	Frequency	(50±2)Hz
SPMK991T / Pneumatic	0-40 bar	System power	800W
SPMK991T / Hydraulic	0-700 bar	Dimension	(1050x700x620)mm;
Working Temperature	(5∼35)℃	Weight	45-65kg
AC power	220V±10%		
	Reliable grounding required; resistance should be less than $50\Omega$ .		



## SPMK700 Digital Pressure Gauge--Reference Gauge

#### **Main Features and Technical Data:**

Accuracy: 0.05% FS (0.02%FS is optional);

Pressure range: (-1 ~ 2500) bar, 36500psi

11 pressure units available:

kg/cm2, inHg, inH2O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH2O

Six digital resolution display

Percentage bars indication for visual reference.

Backlight indicate time can be set

Storage 40 files, 40 data per file

Zero function, Peak function

Pressure types: Gauge pressure, absolute pressure, differential pressure, compound pressure

Temperature display

Factory calibration report or Accredited calibration certificate Provided

Storage temperature:  $(-20 \sim 60)$  °C;

Operating temperature:  $(0 \sim 50)$  °C;

Compensation temperature:  $(0 \sim 50)$  °C;

Relative humidity: <95%RH (no condensation)

Atmosphere Pressure: (86 ~ 101) kPa;

Media: Clean and dry and no-corrosive gas or liquid which is compatible with 316SS

Power: 7.4V rechargeable lithium battery, or 110/220V external power adapter

Battery working time: 40 hours w/o loading 24V, 8 hours w/24V loading.

Pressure connection: M20x1.5, 1/4"BSP, 1/4"NPT; 1/2" NPT, 1/2" BSP Male Thread

Dimensions: Header (Φ120× 45) mm, total length 190mm;

Net Weight: 0.7kg

Carrying Case and Rubber Protector Optional





## **SPMK223 Pressure Calibrator HART – Reference Gauges**

#### **Main Features and Technical Data:**

24V Power Supply with HART communication protocol

Calibrate HART Pressure sensor/Transmitter/Pressure gauges

Accuracy: 0.05% FS (0.02%FS is optional);

Pressure range: (-1 ~ 2500) bar, 36500psi

11 pressure units:kg/cm2, inHg, inH2O, Pa, kPa, MPa, bar, mbar, psi,

mmHg, mmH2O

Six digital resolution display

Percentage bars indication for visual reference

Backlight indicate time can be set

Storage 40 files, 40 data per file

Zero function, Peak function

Pressure types: Gauge pressure, absolute pressure, differential pressure, compound pressure

Pressure switch measurement has automatic trigger function

Factory calibration report or Accredited calibration certificate Provided

Current measure  $\pm 30.0000 \text{mA} \pm (0.01\% \text{RD} + 0.003\% \text{F.S})$ 

Voltage measure  $\pm 30.0000V$   $\pm (0.01\%RD + 0.003\%F.S)$ 

Power output DC24V (Max current output: 50mA)±0.5V

Power: 7.4V rechargeable lithium battery, or 110/220V external power adapter

Battery working time: 40 hours w/o loading 24V, 8 hours w/24V loading.

Pressure connection: M20x1.5, 1/4"BSP, 1/4"NPT; 1/2" NPT, 1/2" BSP Male Thread

Dimensions: Header (Φ120× 45) mm, total length 190mm;

Net Weight: 0.8kg

Carrying Case and Rubber Protector Optional





## **Portable Pressure Comparator**

#### SPMK212C Low Pressure Comparator 0.4bar 6psi

Type: Pneumatic

**Pressure range:**  $(-0.4 \sim 0.4)$ bar;  $(-6 \sim 6)$ psi

**Connection:** M20×1.5, 1/4NPT / BSP,1/2NPT / BSP Female

**Dimension:** (240×130×130) mm

Net weight: 1.5 kg

**Accessories:** Plugs, O rings, Carrying Case(optional)



#### SPMK213C Low Pressure Comparator 1bar 15psi

Type: Pneumatic

**Pressurerange:**  $(-0.7 \sim 1)$ bar;  $(-10 \sim 15)$ psi

**Connection:** M20×1.5,1/4NPT/BSP,1/2NPT/BSPFemale

**Dimension:** (305×205×140) mm

Net weight: 3.0 kg

**Accessories:** Plugs, O rings, Carrying Case(optional)



#### SPMK213B Low Pressure Comparator 6bar 90psi

Type: Pneumatic

**Pressure range:** (-0.95~6) bar; (-14~90)psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimension:** (298×179×154) mm

Net weight: 2.6Kg

**Accessories:** Plugs, O rings, Carrying Case(optional)



#### SPMK213H Low Pressure Comparator 40bar 600psi

Type: Pneumatic

**Pressure range:** (-0.95~40)bar; (-14~600)psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimension:** (298×179×154) mm

Net weight: 2.6Kg

**Accessories:** Plugs, O rings, Carrying Case(optional)





#### SPMK213E High Pressure Comparator 70bar 1000psi

Type: Pneumatic

**Pressure range:** (-0.95~70)bar, (-14~1,000)psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimension:** (400×262×170) mm

Net weight: 5.5Kg

Accessories: Plugs, O rings, Carrying Case(optional)



#### SPMK213E High Pressure Comparator 100bar 1500psi

Type: Pneumatic

**Pressure range:**  $(-0.95 \sim 100)$ bar,  $(-14 \sim 1,500)$ psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimension:** (400×262×170) mm

**Net weight:** 5.5Kg

**Accessories:** Plugs, O rings, Carrying Case(optional)



#### SPMK214E High Pressure Comparator 160bar 2320psi

**Type:** Pneumatic

**Pressure range:**  $(-0.95 \sim 160)$ bar,  $(-14 \sim 2,320)$ psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimension:** (470×262×170) mm

Net weight: 6.0Kg

Accessories: Plugs, O rings, Carrying Case(optional)



### SPMK214L Water Pressure Comparator 700bar 10000psi SPMK214L Oil Pressure Comparator

**Type:** Hydraulic (Oil / Water, Two types of pumps) **Pressure range:**  $(0 \sim 700)$ bar,  $(0 \sim 10,000)$ psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimension:** (384x198×180) mm

**Net weight:** 4.7Kg

**Accessories:** Plugs, O rings, Carrying Case(optional)





## **Desk-top Pressure Comparator**

#### SPMK2000E Pneumatic Pressure Comparator 60bar 900psi

**Type:** Pneumatic

**Pressure Range:** (-0.95~60) bar, (-14~900)psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimensio**n: (465×360×246) mm

Net weight: 14Kg

Accessories: Plugs, O rings, Carrying Case(optional)



### SPMK990S Water Pressure Comparator 600bar 9000psi SPMK990Y Oil Pressure Comparator

**Type:** Hydraulic (Oil / Water, Two types of pumps) **Pressure Range:**  $(0\sim600)$  bar,  $(0\sim9,000)$ psi

**Connection:** M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

**Dimension:** (465×370×240) mm

Net weight: 15Kg

**Accessories:** Plugs, O rings, Carrying Case(optional)



### SPMK990S Water Pressure Comparator 1000bar 15000psi SPMK990Y Oil Pressure Comparator

**Type:** Hydraulic (Oil / Water, Two types of pumps) **Pressure Range:**  $(0 \sim 1,000)$  bar,  $(0 \sim 15,000)$  psi

**Connection:** M20×1.5, 1/2NPT/BSP Female

**Dimension:** (450×380×250) mm

Net weight: 15Kg

Accessories: Plugs, O rings, Carrying Case(optional)



### SPMK213K Ultrahigh Pressure Comparator 2500bar 36000psi

**Type:** Hydraulic Oil

**Pressure Range:**  $(0\sim2,500)$ bar,  $(0\sim36,000)$  psi **Connection:** M20×1.5, 1/2BSP Female, HP1/4

(9/16"-18 UNF female, Autoclave F-250-C,)

**Dimension:**  $(450\times380\times25)$  mm

**Net weight:** 17Kg

Accessories: Plugs, O rings, Carrying Case(optional)





## **Process Calibrator and Pressure Module**







		SPMK518	SPMK517	SPMK516
		Intelligent process	Multifunction	Multifunctiontem
	NOTE: 1. 1.	calibrator	process calibrator	p calibrator
	Millivolt voltage	•	•	•
	Voltage	•	•	•
	Current	•	•	•
	Frequency	•	•	•
Measurement	Pulse	•	•	•
	Resistance	•	•	•
	On- off	•	•	•
	11 RTDs	•	•	•
	13 thermocouples	•	•	•
	Millivolt voltage	•	•	•
	Voltage	•	•	•
	Current	•	•	•
Simulating	Frequency	•	•	•
Simulating	Pulse	•	•	•
	Resistance	•	•	•
	Simulate 11 RTDs	•	•	•
	Simulate 13thermocouples	•	•	•
	HART communication	•	NOT AVAILABLE	NOT AVAILABLE
	External pressure module①	Need to order separately	Need to order separately	NOT AVAILABLE
	Thermal book	•	•	•
Other Functions	Step&programming output	•	•	•
	24V loop power supply	•	•	•
	Simulating transmitter	•	•	•
	RS232 communication	•	•	•
(A) F. (1)	Storage	•	•	•

①External pressure module refers to SDP modular intelligent pressure calibrator produced by my company.



#### **Electrical Specifications—Measurement Accuracy**

Signal	Range	Accuracy	Resolution
Current	(-30-30)mA	$\pm (0.01\% RD + 0.005\% F.S)$	0.1uA
Voltage	(-30-30)V	$\pm (0.01\% RD + 0.005\% F.S)$	0.1mV
mV	(-75-75)mV	$\pm (0.01\% RD + 0.005\% F.S)$	0.1uV
R-3W	$(0-400)\Omega$ $(0-4000)\Omega$	±(0.02%RD+0.005%F.S)	$1 \mathrm{m}\Omega$ $10 \mathrm{m}\Omega$
R-4W	$(0-400)\Omega$ $(0-4000)\Omega$	±(0.01%RD+0.005%F.S)	$1 \mathrm{m}\Omega$ $10 \mathrm{m}\Omega$
Frequency	(1-50000)Hz	$\pm (0.005\% RD + 0.002\% F.S)$	1Hz
Pulse	0-999999	±1pcs	1
Limit Switch	If the switch has detective voltage, range is (3-24)V		
Thermocouple	K E J T N R S B C D G L U		
RTD	Pt1000(385),Pt500(385),Pt100(385),Pt100(3916),Pt100(3926),Pt10(385) Cu10(427),Cu50(428),Cu100(428),Ni120(672),Ni100(618)		

#### **Electrical Specifications—Source Accuracy**

Signal	Range	Accuracy	Resolution
Current	(0-22)mA	$\pm (0.02\% RD + 0.005\% F.S)$	0.1uA
Voltage	(0-12)V	$\pm (0.02\% RD + 0.005\% F.S)$	0.1mV
mV	(-10-100)mV	$\pm (0.02\% RD + 0.005\% F.S)$	1uV
Resistance	$(0-400)\Omega$	$\pm (0.02\% RD + 0.005\% F.S)$	$1 \mathrm{m}\Omega$
Resistance	$(400-4000)\Omega$	$\pm (0.03\% RD + 0.01\% F.S)$	$10 \mathrm{m}\Omega$
Frequency	(0-50000)Hz	$\pm (0.005\% RD + 0.002\% F.S)$	0.1Hz
Pulse	0-999999	±1pcs	1
DC24V	24.0±0.5V	N/A	N/A
Simulating Thermocouple	K E J T N R S B C D G L U		
Simulating RTD	Pt1000(385),Pt500(385),Pt100(385),Pt100(3916),Pt100(3926),Pt10(385) Cu10(427),Cu50(428),Cu100(428),Ni120(672),Ni100(618)		

#### SDP Pressure Module (Connect with SPMK518/7 Process Calibrator)

Pressure ranges up to 36,000 psi (2,500 bar)

Accuracy: ±0.05%FS±0.1%F.S

Connection: M20×1.5, 1/4NPT / BSP, 1/2NPT / BSP Female

Signal output: RS232, 9,600 baud rate, date length 8 digits, no stop bit

Communication distance: Wire diameter no less than 0.6mm, max distance 3-5m

Operation temperature: 0-50°C

Environmental Relative humidity: ≤90% R.H

Atmospheric pressure: (86~106)kPa

Dimension: Ø35×133.5(mm)

Net Weight: 0.28kg; Calibration period: 1 year.

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# SPMK313A/313BTemperature Calibrator /Dry Block

MODEL	SPMK313A	SPMK313B
Picture	nim de la constant de	
Temperature Range	$(-30 \sim 155)^{\circ}$ C(Ambient temperature25°C)	(33 ~ 660) °C
Deviation	±0.15°C	±0.5°C
<b>Display Resolution</b>	0.001°C	0.001℃
<b>Insert Depth</b>	170mm	170mm
<b>Diameter of Thermal Block</b>	Ø25mm	Ø25mm
Standard block insertion diameter	Ø6、Ø8、Ø10mm / customized	Ø6、Ø8、Ø10mm / customized
Temperature difference between holes	≤±0.05°C	≤±0.05°C
Axial temperature field	Temperature change within 40mm from the bottom of the soaking block hole≤0.5°C	Temperature change within 40mm from the bottom of the soaking block hole≤0.5°C
Temperature fluctuation	≤±0.03°C/15mins	≤±0.03°C/15mins
Dimension	(310×240×400) mm	(300×176×380) mm
Net Weight	14.0kg	12.0kg
Power	150W	800W

### DC signal measurement

Function	Measuring range	Accuracy	Resolution
Voltogo	(-75 ~ 75)mV	±(0.01%RD+0.005%FS)	$0.1 \mu V$
Voltage	(-30 ~ 30)V	±(0.01%RD+0.005%FS)	0.1mV
Current	(-30 ~ 30)mA	±(0.01%RD+0.005%FS)	0.1μΑ
Resistance 4-wire	$(0 \sim 400)\Omega$	±(0.01%RD+0.005%FS)	1mΩ
Switch measurement	Short circuit resistance<100Ω	Reaction time: <10ms	0.01°C



# **Pressure Calibrators Accessories**

Model No.	Items	Pictures	Application	Range
SPMK2000-1	Adaptors sets		Based on the standard M20×1.5M to 38 different thread following: M20×1.5 m/f G1/2 m/f NPT1/2 m/f M16×1.5 m/f G3/8m/f NPT3/8 m/f M14×1.5 m/f G1/4 m/f NPT1/4 m/f M12×1.5 m/f G1/8 m/f NPT1/8 m/f M10×1.0 m/f ZG1/2 m/f ZG3/8 m/f ZG1/4 m/f ZG1/8 m/f Ø6 Ø8 Ø10 M20X1.5 right angle	(-1~2500) bar
SPMK2000-1N4	Adaptors sets		Based on the standard1/4NPTM to 38 different as above 38 thread	(-1~2500) bar
SPMK2000-1N2	Adaptors sets		Based on the standard1/2NPTM to 38 different as above 38 thread	(-1~2500) bar
SPMK2000-1B4	Adaptors sets		Based on the standard1/4BSPM to 38 different as above 38 thread	(-1~2500) bar
SPMK2000-1B2	Adaptors sets		Based on the standard1/2BSPM to 38 different as above 38 thread	(-1~2500) bar
SPMK2000-2	Pressure Hose	<b>*</b>	For Pneumatic Gauge Calibration	( -1~8) bar
SPMK2000-3	Pressure Hose	<b>3</b>	For Pneumatic Gauge Calibration	( -1~40) bar
SPMK2000-4	Pressure Hose		For Hydraulic Gauge Calibration	(0~700) bar
SPMK2000-4A	Pressure Hose		For Hydraulic Gauge Calibration	(0~1000) bar
SPMK2000-5	Pneumatic-Hydraulic Separation Filter	binese:	Filter impurities and remove oil during pneumatic pressure comparator calibration.	(-1~250) bar
SPMK2000-6	Hydraulic Filter		Filter impurities in the gauge, protect the pump from pollution	(0~700) bar



Model No.	Items	Pictures	Application	Range
SPMK2000-9	Pressure Manifolds	47 G	5-in-1Pressure Manifolds Pneumatic and Hydraulic two types	(-1~250) bar
SPMK2000-9				(0-700)bar
SPMK2000-10	Pressure Manifolds		4-in-1 Pressure Manifolds	(0-700)bar
SPMK2000-15	Carrying Case		White,Aluminum Material	
SPMK2000-16	Carrying Case		Black,PP Alloy Material,Outer Dimension:560mm x 455mm x 365mm For SPMK213K&990S comparator only	
SPMK2000-17	Rubber Protector		SPMK223 Calibrator and SPMK700 pressure gauge only.	

<sup>\*\*</sup>NPT/BSP/M20X1.5 thread are available for all accessories.

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<sup>\*\*</sup>BSP and G refers to the same screw thread.

<sup>\*\*</sup>ZG and PT refers to the same screw thread.