DATASHEET

SPMK700 Digital pressure gauge

BCLog-Control

Distributed by AKRIBIS



SPMK700
Digital Pressure Gauge-Reference



Gauge Pressure



Differential Pressure

Product Description

SPMK700 precision digital pressure gauge is a single range, micro power consumption pressure indicator, which has large LCD screen and with high accuracy and stability. The standard RS232 interface can be used for data transfer into computer by our data logger software.

It can be working as a reference gauge, connect with pressure comparator pump for pressure calibration of different pressure range.

Product Characteristics

- Large LCD screen with backlight and temperature display;
- Six digits resolution display switch;
- 11 pressure units available: kg/cm2, inHg, inH2O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH2O;
- Connection thread of M20x1.5, NPT, BSP optional;
- Pressure types: gauge pressure, absolute pressure, differential pressure, compound pressure;
- Percentage display of the pressure value;
- Zero function, peak function;
- Storage 40 files, 40 data per file;
- Rechargeable lithium battery power supply.

Technical Parameters

Project	Parameters
Pressure range①	(-0.1~250)MPa
Accuracy②	±0.02/0.05%FS
Pressure type	Gauge pressure, Absolute pressure, Differential pressure
Connector	Connection thread of M20×1.5, NPT, BSP optional
	Differential Pressure Gauge: 4.00 mm diameter PVC plastic hose
Use environment	Temperature: (0~50)°C; Relative Humidity: <90% non-condensing; Atmospheric Pressure: (86~106)kPa.a
Communication	RS232 interface
Power supply	AC and DC power supply
Dimensions	Head:Ø120mm×45mm;Total length:190mm
Weight	0.7 kg

Note: ① ②Specific ranges and accuracy levels are shown in the Pressure Range Selection Table on P5.

Accessories(included)

Serial number	Description	QTY	Picture
1	Main product	**1 pc**	
2	Power adapter	**1 pc**	
3	Rechargeable lithium battery	**1 pc**	
4	Differential pressure gauge connection cable (only for differential pressure gauge)	**1 pc**	
5	User's manual	**1 pc**	
6	Test report	**1 pc**	

Pressure Range Select Table of kPa/MPa/bar.

Pressure(kPa/MPa)	Pressure(bar)	Accuracy(±%F.S)	Pressure Type
(-100~0)kPa	(-1~0)bar	0.05/0.1	Gauge Pressure
(0~100)kPa	(0~1)bar	0.05/0.1	Gauge Pressure
(0~160)kPa	(0~1.6)bar	0.02/0.05	Gauge Pressure
(0~250)kPa	(0~2.5)bar	0.02/0.05	Gauge Pressure
(0~400)kPa	(0~4)bar	0.02/0.05	Gauge Pressure
(0~600)kPa	(0~6)bar	0.02/0.05	Gauge Pressure
(0~1)MPa	(0~10)bar	0.02/0.05	Gauge Pressure
(0~1.6)MPa	(0~16)bar	0.02/0.05	Gauge Pressure
(0~2.5)MPa	(0~25)bar	0.02/0.05	Gauge Pressure
(0~4)MPa	(0~40)bar	0.02/0.05	Gauge Pressure
(0~6)MPa	(0~60)bar	0.02/0.05	Gauge Pressure
(0~10)MPa	(0~100)bar	0.02/0.05	Gauge Pressure
(0~16)MPa	(0~160)bar	0.02/0.05	Gauge Pressure
(0~25)MPa	(0~250)bar	0.02/0.05	Gauge Pressure
(0~40)MPa	(0~400)bar	0.02/0.05	Gauge Pressure
(0~60)MPa	(0~600)bar	0.02/0.05	Gauge Pressure
(0~70)MPa	(0~700)bar	0.02/0.05	Gauge Pressure
(0~100)MPa	(0~1000)bar	0.05/0.1	Gauge Pressure
(0~160)MPa	(0~1600)bar	0.1/0.2	Gauge Pressure
(0~250)MPa	(0~2500)bar	0.1/0.2	Gauge Pressure
(-100~100)kPa	(-1~1)bar	0.02/0.05	Gauge Pressure
(-100~160)kPa	(-1~1.6)bar	0.02/0.05	Gauge Pressure
(-100~250)kPa	(-1~2.5)bar	0.02/0.05	Gauge Pressure
(-100~600)kPa	(-1~6)bar	0.02/0.05	Gauge Pressure
(-0.1~1.0)MPa	(-1~10)bar	0.02/0.05	Gauge Pressure
(-0.1~2.5)MPa	(-1~25)bar	0.02/0.05	Gauge Pressure
(-0.1~4)MPa	(-1~40)bar	0.02/0.05	Gauge Pressure
(-0.1~6)MPa	(-1~60)bar	0.02/0.05	Gauge Pressure
(0~100)kPa.a	(0~1)bar.a	0.05	Absolute Pressure
(0~160)kPa.a	(0~1.6)bar.a	0.05	Absolute Pressure
(0~250)kPa.a	(0~2.5)bar.a	0.05	Absolute Pressure
(0~400)kPa.a	(0~4)bar.a	0.05	Absolute Pressure
(0~600)kPa.a	(0~6)bar.a	0.05	Absolute Pressure
(0~1)MPa.a	(0~10)bar.a	0.05	Absolute Pressure
(0~1.6)MPa.a	(0~16)bar.a	0.05	Absolute Pressure
(0~2.5)MPa.a	(0~25)bar.a	0.05	Absolute Pressure
(0~4)MPa.a	(0~40)bar.a	0.05	Absolute Pressure
(0~6)MPa.a	(0~60)bar.a	0.05	Absolute Pressure
(0~10)MPa.a	(0~100)bar.a	0.05	Absolute Pressure

Pressure(kPa/MPa)	Pressure(bar)	Accuracy(±%F.S)	Pressure Type
(0~16)MPa.a	(0~160)bar.a	0.05	Absolute Pressure
(0~25)MPa.a	(0~250)bar.a	0.05	Absolute Pressure
(0~40)MPa.a	(0~400)bar.a	0.05	Absolute Pressure
(0~60)MPa.a	(0~600)bar.a	0.05	Absolute Pressure
(0~5)kPa	/	0.2	Differential Pressure
(-5~5)kPa	/	0.1	Differential Pressure
(0~10)kPa	/	0.1	Differential Pressure
(-10~10)kPa	/	0.05	Differential Pressure
(0~16)kPa	/	0.05	Differential Pressure
(-16~16)kPa	/	0.05	Differential Pressure
(0~25)kPa	/	0.05	Differential Pressure
(0~40)kPa	/	0.05	Differential Pressure
(-40~40)kPa	/	0.05	Differential Pressure
(0~60)kPa	/	0.05	Differential Pressure
(-60~60)kPa	/	0.05	Differential Pressure

Pressure Range Select Table of psi.

Pressure (psi)	Pressure(bar)	Accuracy(±%F.S)	Pressure Type
-15	-1	0.05	Gauge Pressure
2	0.16	0.05	Differential Pressure
5	0.35	0.05	Differential Pressure
10	0.7	0.05	Gauge Pressure
15	1	0.05	Gauge Pressure
30	2	0.05	Gauge Pressure
50	3.5	0.05	Gauge Pressure
100	7	0.05	Gauge Pressure
300	20	0.05	Gauge Pressure
500	35	0.05	Gauge Pressure
600	40	0.05	Gauge Pressure
1000	70	0.05	Gauge Pressure
2000	140	0.05	Gauge Pressure
3000	200	0.05	Gauge Pressure
5000	350	0.05	Gauge Pressure
10000	700	0.05	Gauge Pressure
15000	1000	0.05	Gauge Pressure
25000	1600	0.1	Gauge Pressure
36000	2500	0.1	Gauge Pressure

Note: For ±0.02%FS accuracy, please contact with us.
Temperature compensation included. Accuracy for one-year stability.