

With advanced microprocessor technology and high-tech silicon pressure sensors, SPMK700 digital pressure gauge provides an accurate, reliable and economic solution for wide range of pressure applications.

Features

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

Accuracy of $\pm 0.025\%$ FS, $\pm 0.05\%$ FS($\pm 0.1\%$ FS) , $\pm 0.2\%$ FS

Large display with backlit

Optional 10 pressure units: Pa, kPa, MPa, mmHg, kfg/cm², cmH₂O, mmH₂O, psi, mbar, bar

National explosion-proof certification approved (Certificate#.: Exia II CT4Ga)



Technical Specifications

Environmental Temperature: 0~122°F (0~ 50°C)

Environmental Relative humidity: $\leq 95\%$ R.H

Atmospheric pressure: 0.86~1.01 bar (86~101kpa)

Adaptor: M20x1.5 optional

Power: Rechargeable lithium battery or power adapter

Dimension: $\phi 120 \times 45$ (mm)

Net Weight: 0.7kg

Comparison of SPMK700 Precision Digital Pressure Gauge and Precision Pointer Pressure Gauge

	SPMK700 Precision Digital Pressure Gauge	Precision Pointer Pressure Gauge
1	Keep vertical or not are ok during working	It must keep vertical during working
2	No change of the liquid column height difference	There are changes in the height difference (the spring tube defects) of the pointer gauge of testing liquid pressure, only the center of a table setting benchmarks
3	Temperature compensation function	No temperature compensation function
4	Zero variation small	Zero variation big
5	Good vibration resistance	Bad vibration resistance, It may be damaged by vibration.
6	Easy cleaning	Difficult cleaning
7	Linearity, hysteresis small	Linearity, hysteresis big
8	Digital display, easy to read.	Eye-level and estimate reading only, big error
9	Large range of overload	No overload allowed
10	High fatigue durability	Bad performance of fatigue durability
11	High sensitivity	Bad sensitivity, it need to knock the gauge case when reading
12	High reliability and maintenance-free	Bad reliability needs regular maintenance and difficult to maintain

Pressure Range

Gauge Pressure

Pressure Range		Accuracy (%FS)	Media
bar	psi		
-1-0	-15-0	0.025(0.05,0.1)	(1)
0-0.16	0-2	0.05(0.1,0.2)	(1)
0-0.25	0-3	0.05(0.1,0.2)	(1)
0-0.4	0-6	0.05(0.1,0.2)	(1)
0-0.6	0-9	0.05(0.1,0.2)	(1)
0-1.0	0-15	0.025(0.05,0.1)	(1)
0-1.6	0-24	0.025(0.05,0.1)	(1)
0-2.5	0-37	0.025(0.05,0.1)	(1)
0-4	0-60	0.025(0.05,0.1)	(2)
0-6	0-90	0.025(0.05,0.1)	(2)
0-10	0-150	0.025(0.05,0.1)	(2)

0-16	0-240	0.025(0.05,0.1)	(2)
0-25	0-370	0.025(0.05,0.1)	(2)
0-40	0-600	0.025(0.05,0.1)	(2)
0-60	0-900	0.025(0.05,0.1)	(2)
0-100	0-1,500	0.025(0.05,0.1)	(2)
0-160	0-2,400	0.025(0.05,0.1)	(2)
0-250	0-3,700	0.025(0.05,0.1)	(2)
0-400	0-6,000	0.025(0.05,0.1)	(2)
0-600	0-9,000	0.025(0.05,0.1)	(2)
0-1,000	0-15,000	0.1(0.2)	(2)
0-1,600	0-25,000	0.1(0.2)	(2)
0-2,500	0-36,000	0.1(0.2)	(2)

Absolute Pressure

Pressure Range		Accuracy (%FS)	Media
bar	psi		
0-0.6	0-9	0.2	(1)
0-1.0	0-15	0.2	(1)
0-1.6	0-24	0.1(0.2)	(1)
0-2.5	0-37	0.1(0.2)	(1)
0-4	0-60	0.1(0.2)	(2)
0-6	0-90	0.1(0.2)	(2)
0-10	0-150	0.1(0.2)	(2)

0-16	0-240	0.1(0.2)	(2)
0-25	0-370	0.1(0.2)	(2)
0-40	0-600	0.1(0.2)	(2)
0-60	0-900	0.1(0.2)	(2)
0-100	0-1,500	0.1(0.2)	(2)
0-160	0-2,400	0.1(0.2)	(2)
0-250	0-3,700	0.1(0.2)	(2)
0-400	0-6,000	0.1(0.2)	(2)
0-600	0-9,000	0.1(0.2)	(2)

Compound Pressure

Pressure Range		Accuracy (%FS)	Media
bar	psi		
±0.02	±0.3	0.2(0.5,1.0)	(1)
±0.025	±0.4	0.2(0.5,1.0)	(1)
±0.05	±0.7	0.1(0.2,0.5)	(1)
±0.1	±1.5	0.05(0.1,0.2)	(1)
±0.16	±2	0.05(0.1,0.2)	(1)
±0.2	±3	0.05(0.1,0.2)	(1)
±0.4	±6	0.05(0.1,0.2)	(1)
±0.6	±9	0.05(0.1,0.2)	(1)

-1-0.6	-15-9	0.05(0.1,0.2)	(1)
±1	±15	0.025(0.05,0.1)	(1)
-1-1.6	-15-24	0.025(0.05,0.1)	(1)
-1-2.5	-15-37	0.025(0.05,0.1)	(1)
-1-6	-15-90	0.025(0.05,0.1)	(1)
-1-10	-15-150	0.025(0.05,0.1)	(2)
-1-25	-15-370	0.025(0.05,0.1)	(2)
-1-40	-15-600	0.025(0.05,0.1)	(2)
-1-60	-15-900	0.025(0.05,0.1)	(2)
-1-250	-15-3,700	0.025(0.05,0.1)	(2)

(1) Non-corrosive gas; (2) Non-corrosive liquid or gas.