

DR-S220 Differential Pressure Gauge



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The DR-S220 differential pressure gauge utilizes an original advanced differential pressure sensor as its pressure-sensing element, combined with an ultra-low power digital conditioning circuit. As a result, it offers exceptional accuracy and long-term stability. The installation method for the DR-S220 is similar to that of a mechanical differential pressure gauge, making it convenient for engineers to install and debug on-site.

Applications

- Pharmaceutical factory
- Cleanroom
- Ventilations system
- Fan test
- Air conditioning filtration system
- Wards and operating rooms
- Purification table

Features

- Advanced micro differential pressure sensor with high accuracy and good stability
- Multiple pressure units, mbar, psi, pa, kpa, mmHg, mmH2O, Torr
- High/low pressure alarm, sound/light alarm
- Peak value holding, maximum value, minimum value display
- Multiple function: switch on/off, clear, peak record, sound and light alarm
- Powered by 2AA batteries, which lasts more than 12 months

Technical Specs

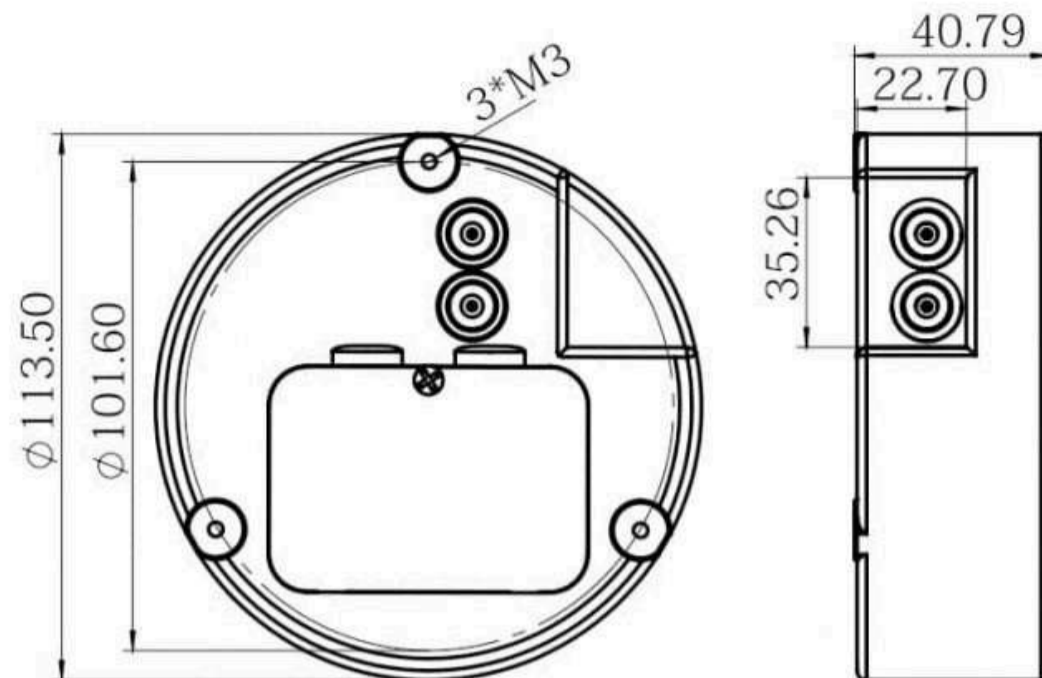
Measurement range	-30~30/-60~60/-100~100/-250~250/-500~500Pa -1.0~1.0/-2.5~2.5/-5~5KPa	Shell material	PA 66
Medium type	Clean air	Diameter	113.5mm

Pressure type	Differential pressure	Backlight color	White
Resolution	5 digits	Peak record	Yes
Overload	7kPa(range<2kPa) 5*range(range≥2kPa)	Operation temp.	- 20 °C ~ + 80°C
Pressure accuracy	± 2% FS(≤100Pa) / ± 1% FS(>100Pa)	Compensation temp.	0°C ~ +40°C
Stability	±0.5 %FS (1 year)	Connection	3*5mm (ID: 3mm, OD: 5mm) air nozzle
Zero drift	±0.02FS/°C	Protection	IP54
Working current	<0.2mA (no alarm)	Power supply	3 x AA/24VDC
Electrical protection	Anti-reverse protection		

Ordering Guide

DR-S220	Digital Pressure Gauge					
	Range	-5kPa~5kPa				
	[0~X]KPa	X: the actual measured pressure				
		Code	Output			
		O1	NO			
		O2	4-20MA			
			Code	Accuracy		
			A1	0.5%FS		
			A2	1%FS		
			A3	2%FS		
				Code	Power supply	
				P1	2 * AA	
				P2	24VDC	
					Code	Color
					C1	White
					C2	Black
DR-S220-	[-1~1]KPa	O1	A2	P1	C1	The whole spec

Outline Construction (Unit: mm)



FAQ

How to select a precision pressure gauge?

When selecting a digital pressure gauge, keep the following factors in mind:

Range and Accuracy: Ensure that the gauge's range and accuracy class align with your application's requirements.

Features: Evaluate the gauge's features to ensure they match your application's needs and expectations.

Materials: Consider the gauge's construction materials and ensure compatibility with the medium used in your application.

Environment: Check the gauge's ingress protection (IP) rating and hazardous location rating to ensure suitability for your application's environment, including explosive environments if applicable.

Connection: Verify that the pressure fittings on the gauge are consistent with or adaptable to your existing process connections.

Why my pressure gauge is not accurate?

One or more of the following eight causes can attribute to pressure gauge failure: mechanical vibration, pulsation, temperature extremes, pressure spikes, overpressure, corrosion, blockage, and misoperation/abuse. Based on long-term experience cases, the main reason for the inaccuracy of digital pressure gauges is the clogging of the pressure interface.

What is the difference between a regular pressure gauge and a 2000 bar pressure gauge?

A regular pressure gauge typically has a lower pressure range, usually up to a few hundred PSI (pounds per square inch) or bar. On the other hand, a 2000 bar pressure gauge is specifically designed to measure much higher pressures, up to 2000 bar or approximately 29000 PSI. This makes the 2000 bar pressure gauge suitable for applications that involve extremely high-pressure environments, such as certain industrial processes or hydraulic systems.