

Vacuum Gauge Tubes



Introduction

Vacuum gauge is a kind of sensor to measure vacuum degree. The signal measured by the vacuum gauge is transmitted to the vacuum gauge, and the vacuum degree of the vacuum environment can be displayed after the amplification treatment of the signal.

Specification

Model	ZJ-54D	ZJ-10(DL-5)	ZJ-27
Material	Metal shell	Glass	Glass
Measurement Range	250Pa~0.25Pa	10~10 ⁻⁴ Pa	5~5×10 ⁻⁶ Pa
Overall Height	≦ 120mm	≦ 250mm	≦ 250mm
Pipe Diameter		35±1mm	35±1mm
Exhaust Pipe Diameter	15.5±0.5mm	15.5±0.5mm	15.5±0.5mm
Heating Current	29±0.5mm		
Gauge Weight	About 58g		
Response Time	≦ 3s		
Anode Voltage		165V	225±2V
Cathode Voltage		50V	25±1V
Emission Current	10~10 ⁻² Pa	50μA	
	10~10 ⁻⁴ Pa	500μA	
	le		le ₁ ±le ₂
Sensitivity		0.015Pa ⁻¹	
Gauge Constant			0.15±100 (Pa ¹)

Range		1.33~1.33×10 ¹ Pa	1.33×10 ¹ Pa~6×10 ⁵ Pa
Emission Current	le ₁	90~100μA	1mA
	le ₂	50μA	5mA

Classification

- **Thermocouple gauge**
ZJ-54D Thermocouple gauges are mainly used for low vacuum measurement.
- **Hot cathode gauge**
ZJ-10 series and ZJ-27 series hot cathode gauges are mainly used for high vacuum measurement.

Features

- ZJ-54D thermocouple gauge has the characteristics of simple structure, wide measurement range, fast response, anti-pollution, oxidation-resistivity, small drift, long service life, stable performance.
- ZJ-10 and ZJ-27 hot cathode gauges has typical triode box structures. Adopting noble metal oxides cathodes, they have the features of oxidation resistance, instantaneous atmospheric impact resistance, stable performance and long service life.

Application

Vacuum gauge is mainly used for vacuum measurement of vacuum environment such as vacuum coating, solar collector tube manufacture, vacuum smelting, etc.