

Helium Sensor He-5B

- Suitable to helium concentration measurement;
- Measurement precision 0.1%VOL;
- T90 response time $\leq 10\text{sec}$;
- Al. Alloy case, easy mounting;
- Anti-Shock $>100\text{g}$, support HFCV crash test;
- Low power consumption design, easy to connect with Data Acquisition Devices;
- Analog voltage output.



The helium sensor is based on the principle of gas heat conduction to detect the concentration of helium. The gas thermal conductivity sensor used inside adopts MEMS technology, which is beneficial to the thermal conductivity response of the measured component and reference gas. The feedback and bias circuit are used, which not only prevents temperature drift but also makes the final output linear analog signal. The sensor is equipped with a high-performance wear-resistant cable, which can be customized in length. Dallas ID and connector are optional.

Specification(with 102 excitation, 25°C):

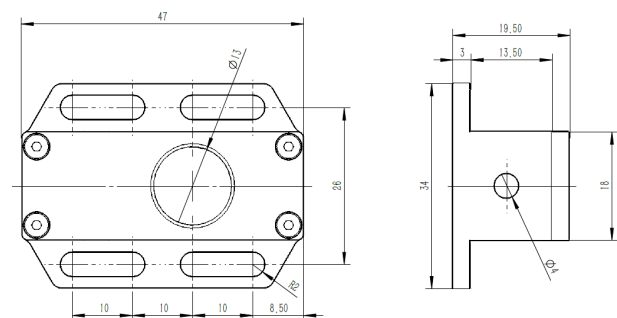
Name	Unit	Value
Test range	%vol	5
Test error	%vol	$\leq \pm 0.1$
Non-Linearity	%FS	$\leq \pm 1.5$
Signal output	V	0.5~2.5
Excitation Voltage	V	8~16
Current	mA	≤ 20
T90 response time	sec	≤ 10
Operational Temp.	°C	-10~40
Anti-Shock	g	≥ 100
Insulation Res.	MΩ	≥ 100
Mounting	/	4 × M4
Case material	/	Al. Alloy
Mass	grams	30
Dimension	mm	47 × 34 × 19.5

Note: Sensor Type is Active Sensor with Excitation;

The cable length is 8m;

No connector and no Dallas ID as default.

Dimension:



Wires Define:

Red	Excitation voltage+
Black	Excitation voltage-
White	Signal-
Green	Signal+
Shield	Connector Case