



RCP230N Portable Pirani Vacuum Gauge

Instructions (Quick Version)

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1 Safety Issues

PRG500 is a precision instrument for vacuum measurement, and its internal sensors are susceptible to damage under the following conditions

1) Withstand shock vibrations, such as accidental falls, if the drop height exceeds 0.8 meters, then the probability of sensor damage is greater than 80% when the;

2) The tested medium gas contains strong oxidizing or corrosive components, making the sensor vulnerable to damage ;

3) While the protect plate in front of the flange inlet is missing, and withstand strong airflow impact, making the sensor vulnerable to damage ;

Therefore, it is necessary to check and avoid the occurrence of the above three situations before installing and using the vacuum gauge. The product damage caused by the above situations is not covered by the warranty.

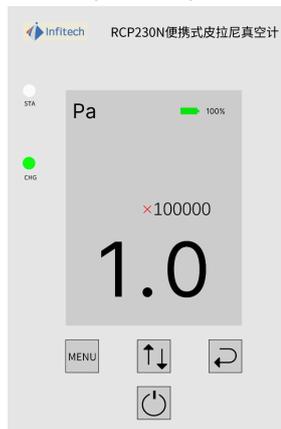
2 Installation method

1) Standard KF16 flange installation



2) Please consult the manufacturer for other connection methods

3 Panel Layout Description



charging and turn off when fully charged.

Method for reading vacuum data:

The vacuum data is displayed in the following way

Vacuum = coefficient × Multiple of 10

The final result of the data shown in the above figure is

Vacuum = 1.0 × 100000 = 100000Pa

4 Button and menu operation methods

 Menu button, activate menu and switch between options in menu or submenu

 Up and down button, to switch the selected content within a menu or option

 Confirm button

 Power button, long press to turn on the device in shutdown mode, short

STA Status indicator Light—Indicating the current state, there are several states as follows

1) Green breathing light: The device is in sleep mode, press the power button to exit sleep mode

2) Yellow light flashing: abnormal atmospheric pressure, needs to be recalibrated under atmospheric conditions

3) Red light flashing: Sensor fault, requires contacting the manufacturer to replace the sensor

CHG Charging indicator light—Indicating the charging status, it will light up when

press to wake up the device in sleep mode, and long press to turn off the device in startup mode.

The menu has the following options:

- 1) Atmospheric calibration
Please refer to Section 5 Atmospheric Calibration Instructions for details
- 2) High Vacuum calibration
Please refer to Section 5 Vacuum Calibration Instructions for details
- 3) Standby time setting
The standby time refers to the time after which the vacuum gauge enters standby mode when operated by no one. The default setting for this time is 15 minutes when it leaves the factory, and there are optional times of 30 minutes, 1 hour, 3 hours, and permanent startup, with the option of permanent startup. Users need to choose the time based on the actual working conditions on site, and a reasonable standby time selection can save power.
After the device enters standby mode, the STA indicator light will display a green breathing light prompt. At this time, short press the power button to exit sleep mode. If there is no operation for more than 30 minutes, the device will automatically shut down..
- 4) Display unit settings
You can switch between Pa, Torr, and mBar units.
- 5) Restore factory settings

Using Switching Vacuum Units as an Example to Explain Menu Operation

Step1 : Press the MENU key to activate menu mode in vacuum degree data display mode

Step2 : Press the up and down keys, select "Display Unit Settings",

Step3 : Press the confirm button to enter the submenu

Step4 : Press the up and down keys to switch between the optional units and select the desired unit

Step5 : Press the confirm button to select

Step6 : Return to menu mode, select exit, press the confirm button, and the

interface will return to online data display. The new vacuum data display interface will display in the unit you just selected

5 Gauge Calibration

Method for atmospheric calibration:

- 1) Ensure that the vacuum gauge sensor is at atmospheric pressure (if the vacuum gauge is already installed on the flange, it is necessary to ensure that the connected pipeline or chamber is depressurized to atmospheric pressure),
- 2) Press the MENU key to activate the menu, press the up and down keys to select the atmospheric calibration menu, and press the OK key to select,
- 3) Press the OK key to confirm in the pop-up confirmation interface
- 4) Atmospheric calibration has started, and the display screen shows "Calibration in progress, please wait..."
- 5) "Calibration successful" appears on the display interface, indicating that the calibration has been successfully completed, and the system will automatically exit the calibration interface.

Method for high vacuum calibration:

- 1) Ensure that the vacuum gauge sensor is in a vacuum environment below 0.01Pa,
- 2) Press the MENU key to activate the menu, press the up and down keys to select the vacuum calibration menu, and press the OK key to select,
- 3) Press the OK key to confirm in the pop-up confirmation interface
- 4) high vacuum calibration has started, and the display screen shows "Calibration in progress, please wait..."
- 5) "Calibration successful" appears on the display interface, indicating that the calibration has been successfully completed, and the system will automatically exit the calibration interface.

Notes :

- (1) The vacuum gauge needs to be powered on for 5-10 minutes to ensure that the vacuum gauge sensor is in a stable state;
- (2) Before calibration, it is necessary to confirm the vacuum status to ensure that the vacuum is either below 0.01Pa or in the atmosphere. When the button

is pressed, the vacuum gauge will automatically recognize and perform corresponding high-vacuum or atmospheric calibration. If the vacuum state is incorrect, it will cause the calibration of the vacuum gauge to be incorrect.

6 To get more support

Log in to the official website or scan the WeChat public account at below (recommended), reply "RCP230N" you can get the detailed version of the RCP230N manual and other related information about the product. All the latest updated information will be published on the WeChat public account and the company's official website as well.



7 Warranty

The product is guaranteed for 12 months from the date of receipt, and the components directly in contact with the vacuum are not covered by the warranty. In addition, tearing off the warranty seal is invalid and may result in automatic loss of warranty eligibility.

8 Contact information

Tel : 021-54130910
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