

# **The Machine condition monitoring diagnostic instrument operating instruction**

This specification applies to the SD3300 series of  
products

# Safety warning

In order to use your products correctly and safely, please read this book carefully.

- Non-professionals do not remove the product, if there is any fault, please contact the professionals;
- It is prohibited to install, use, maintain and alter the products in any way not specified in this manual;
- This product includes lithium sub-battery, do not heat the product over the temperature of 60°C, so as not to cause personnel injury;

# Product packaging list

After opening the product packaging box, please check whether the items in the packaging box are complete. If there is any missing, please contact us quickly. The actual configuration is subject to the "Product packing List".

## Product host:

Product introduction

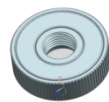
Product specification and warranty

Product qualification

Machine status

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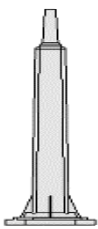
## Magnetic suction mounting



Magnet

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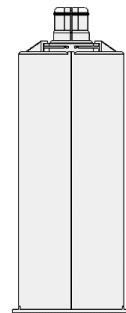
## Adhesive mounting



Mixed

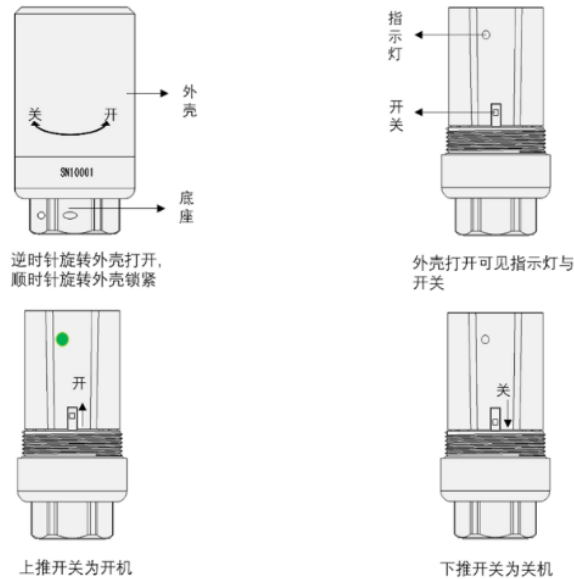


booste



gl

# Know your product



state		explain
green light	Booon slow flash 5 times (once 1s) -> Chang bright (2s) -> flash 7 times (once 500ms) -> flicker once-> out	Diagnostic instrument was connected to the gateway successfully (SD3300) (Sensor first connected to this gateway)
	Booon slow flash 5 times (1s once) -> Chang bright (2s) -> flicker once-> out	Diagnostic instrument was connected to the gateway successfully ( SD3300) (Sensors were previously connected to this gateway)
green light	Booon slow flash 5 times (1s once) -> Chang bright (2s) -> flash 7 times (500ms once) -> out	The Diagnostics machine has failed to connect to the gateway (ZigBee)
green light	Booon slow flash 5 times (1s once) -> Chang bright (20s, sensor network process) -> flicker once-> out	The diagnostic instrument was successfully connected to the cloud platform (PDA)
green light	Booon slow flash 5 times (1s once) -> Chang bright (20s, sensor injection process) -> out	The diagnostic failed to connect to the cloud platform (PDA)

# Select the installation location

The intelligent wireless diagnostic instrument is generally arranged on the main bearing or main bearing seat of the pump equipment, and the machine cover, cover plate and other parts are not suitable for measuring points.

The corresponding installation position of each type is shown in the figure.

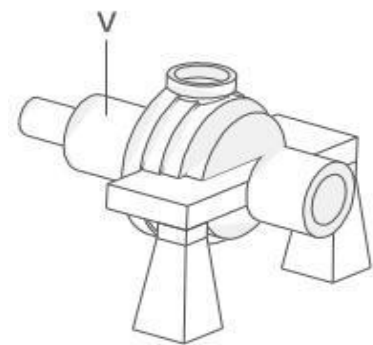
## Suspension arm centrifugal pump

Quantity: 1~2

It must be installed in the vertical direction (V direction shown in the figure)

Near the drive end bearing position

If in case. install to both ends of the bearing case



## Support pump at both ends

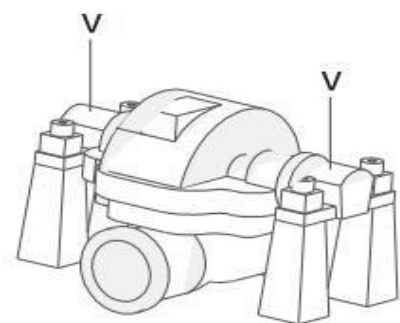
Quantity: 2

Installation location is vertical (V direction shown

in

the figure)

One bearing position at each end



## Vertical pipe pump

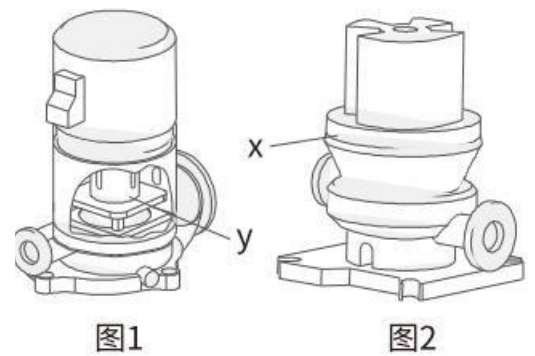
Quantity: 1

Pump type with bearing body structure is mounted to the shaft

Bearing position (Y direction shown in Figure 1)

No bearing body structure pump type mounted to the electrical

Location of machine coupling flange (X-direction as shown in Figure 2)



# Select the installation location

Intelligent wireless diagnostic instrument is generally arranged on the main bearing or main bearing seat of the motor equipment, and the machine cover, cover plate and other parts are not suitable for measuring points.

The corresponding installation positions of some motors are shown in the figure.

## Low voltage motor

Quantity: 2

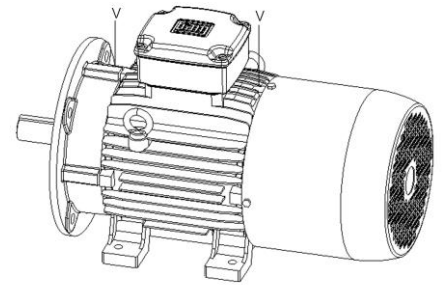
Installation location is vertical (V direction shown in the figure)

One bearing position at each end

Note: Dual terminals adopt the "main + secondary" working mode.

Optional 1 time is installed on the drive end

Installation method: stud installation /



## High voltage motor

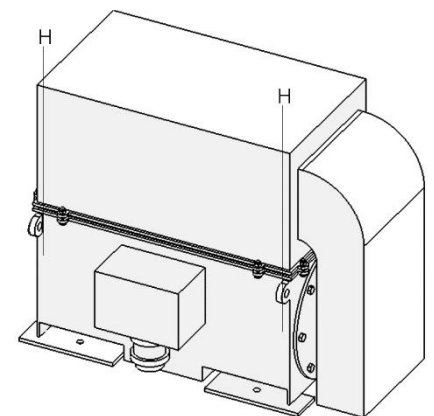
Quantity: 2

Installation location is horizontal (H direction shown in the figure)

One bearing position at each end

Note: Dual terminals adopt the "main + secondary" working mode.

It is recommended to be installed in "main + auxiliary" working mode.



## High voltage motor

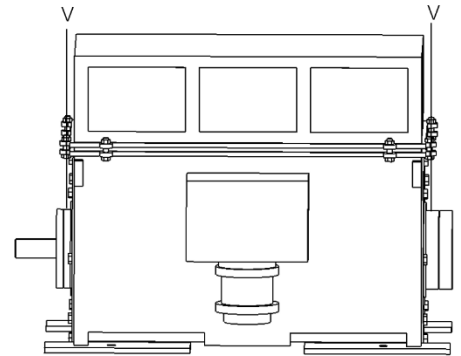
Quantity: 2

Installation location is vertical (V direction shown in the figure)

One bearing position at each end

Note: Dual terminals adopt the "main + secondary" working mode.

It is recommended to be installed in "main + auxiliary" working mode.





# Select the installation location:

The intelligent wireless diagnostic instrument is generally arranged on the main bearing or the main bearing seat of the fan equipment, and the machine cover, cover plate and other parts are not suitable for measuring points.

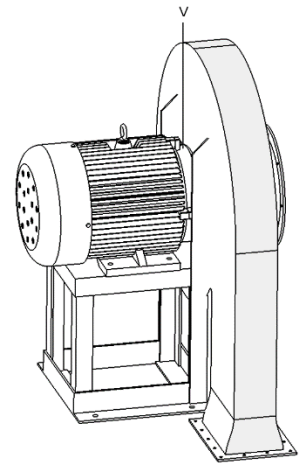
The corresponding installation position of some fans is shown in the figure.

## High pressure centrifugal fan

Quantity: 1

Installation location is vertical (V direction shown in the figure)

Near the drive end bearing position



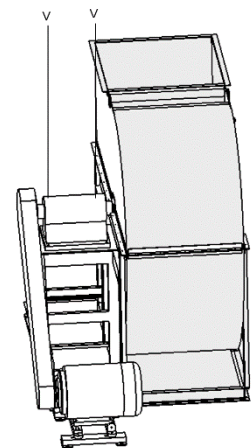
## induced draft fan

Quantity: 2

Installation location is vertical (V direction shown in the figure)

One bearing position at each end of the bearing seat

Note: Dual terminals adopt the "main + secondary" working mode.



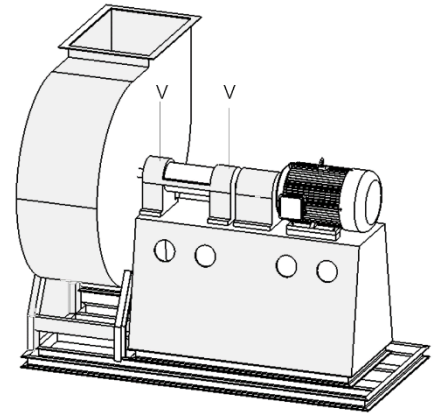
## centrifugal blower

Quantity: 2

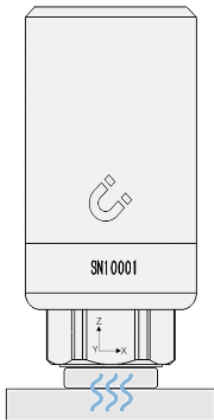
Installation location is vertical (V direction shown in the figure)

One bearing position at each end of the bearing seat

Note: Dual terminals adopt the "main + secondary" working mode.



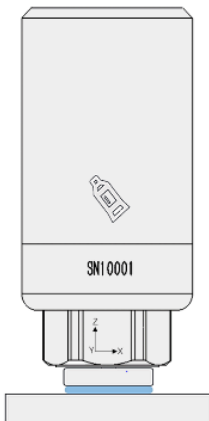
# Choose how to install



## Magnetic suction installation

Installation interface requirements: magnetic suction plane  $\varnothing$  23mm

Installation accessories:  $\varnothing$ 20X8mm magnetic seat \* 1



## Adhesive installation

Installation interface requirements: adhesive plane  $\varnothing$  23mm

Installation accessories: special metal glue \* 1

Note:

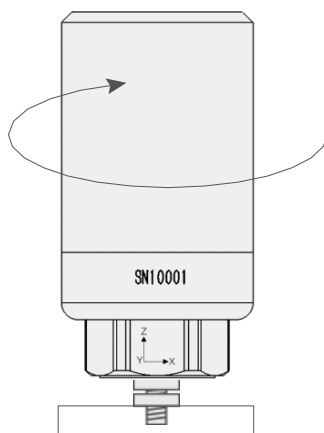
1. In order to ensure the best installation stability and temperature monitoring

accuracy, it is recommended to use stud installation.

2. Strong magnets will demagnetize for a long time and high temperature. When the surface temperature of the equipment is higher than 55°C, it is recommended to use stud or adhesive installation.

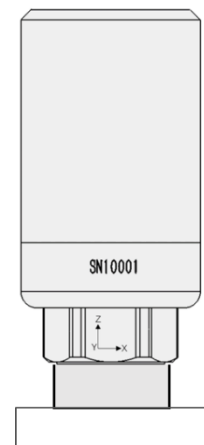
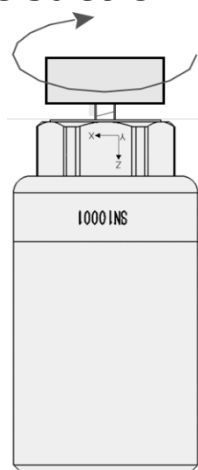
## Specific installation steps

### Bolt installation



1. Screw the product clockwise into the stud, to ensure that the sensor Z axis

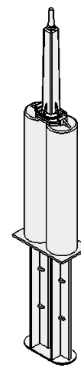
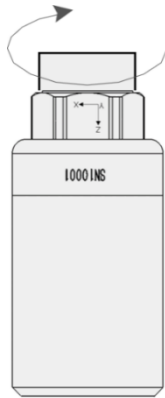
### Magnetic suction installation



1. Tighten the magnetic seat clockwise to the product

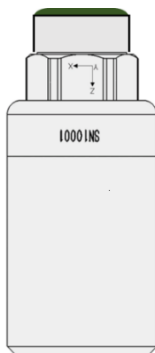
2. Adsorb the product to the equipment installation point to ensure that the

### Adhesive installation



1. Tighten the magnetic seat

2. Assemble the special metal rubber gun and press the booster



3. Apply the glue evenly to the

4. Attach the sensor to the  
installation point of the  
equipment to ensure that the

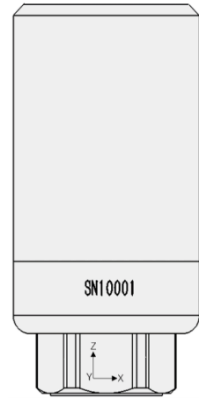
# Installation direction

The height direction of intelligent wireless diagnostic instrument (such as the Z axis direction on the right) needs with the pump

The equipment axis is vertical, and the Y-axis direction is parallel to the axis.

X: Horizontal Y: Axial Z: vertical (spindle)

\* Note: Do not remove the host shell and base by yourself, otherwise it may lead to product failure.



# conformally connected space

The warranty period of the intelligent wireless diagnostic instrument product is 2 years. During the normal use of the product, if the product has a non-human damaged performance failure, provide free adjustment, maintenance and replacement within 2 years from the date of purchase.

After-sales service hotline:

warranty card

User info	
surname and personal name	
contact number	
postal address	
date of purchase	
Sales unit information	
name	
address	
contact number	
on-product information	
product model	
Product serial number	

This information is for reference only and does not constitute a commitment of any kind