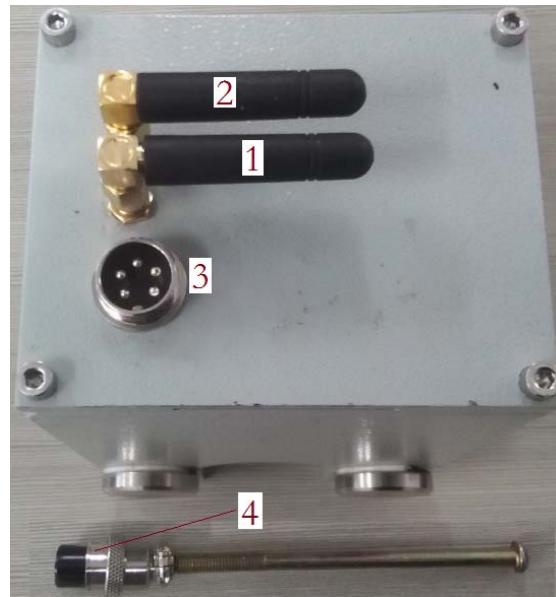


# Wireless Combo Sensor

## Instructions

The wireless combo sensor starts up at every clock sharp to receive the dynamometer and working status data sent from the signal transmitter, then transmits the data to the RTU through the ZigBee Module. Operators can start up the sensor manually by connecting the start-up key to the aviation plug when the sensor is at the sleep mode.



1、315-module receiving antenna; 2.ZigBee Module antenna;

3 aviation plug 4. start-up key

**figure 1 wireless combo sensor**

### Performance Index:

Power Supply: DC7.2V, 100mA

Working currency: <40 mA

Battery Life:  $\geq$  2.5 years

Carrier Frequency:315MHz 2.4GHz

Communication Error:  $\leq 10^{-6}$

Transmission Range:  $\leq 500m$

Transmit power:  $\leq 10mW$

Working environment: Temperature:  $-25^{\circ}C \sim +85^{\circ}C$ ; Humidity: 5%~95%RH

Time error:  $\leq 1$  min/year

Pumping frequency range: 0.2-15/min

Stroke displacement range: <10m ±1% F·S

Load range: ≤ 150KN ±1% F·S

Test frequency: 24 (48) / day, settable

Working status checking frequency: ≤ 4 min

Working status data error: ≤ 1%

Dynamometer data error: ≤ 1%

Hardware failure: ≤ 1%

## **FCC STATEMENT :**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is

connected.

Consult the dealer or an experienced radio/TV technician for help.

## **RF warning statement**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.