

Remote Transmission Unit

Instructions

The RTU is researched for oil field data transmissions and it's installed in the DRS. The DRS is installed by the onsite workers at the well site within a radius of 500 meters nearby its targeting pumping units for data transmission with the oil field data acquisition equipments through Zigbee Network.

Extended function: the RTU can be connected to an external GPRS module to transmit the data to client servers.



1、 external antenna 2、 power input terminal and GPRS expansion interface

Remote Transmission Unit

Technical Specifications:

Power supply: 9VDC 300mA

Working current: <200 mA

Dynamometer data storage: ≥ 2000

Working status data storage: ≥ 180

Liquid yield data storage: ≥ 2000

Battery continuous working time: $\geq 10\text{min}$

Working environment: Temperature: $-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$; Humidity: $5\% \sim 95\%\text{RH}$

Carrier frequency: 2.4GHz

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

Transmission power: $\leq 50\text{mW}$

Time error: ≤ 1 min/year

Transmission range: ≤ 500 m

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.