Welcome to use On Load Tap Changer of Guizhou Changzheng!

Please read the operating instructions of this product before you put the on load tap changer into service. Please pay special attention to the following items:

- 1. Check and accept the products according to the packing list when receiving products. Keep the evidence if there are any damages during transportation in order to claim compensation from the responsible party and protect your rights.
- 2. The product only can be used with the transformer which specified in the order. You need to consult with our company in advance if you want to change the purpose of this product.
- 3. The installation, put into operation, maintenance and repair of the product should be complied with the operating instructions and relevant provisions of security.

All data in this manual may be different in details from the tap-changer that we delivered. We reserve the right to change without notice.

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1. General

1.1 Safety instructions

All personnel involved in installation, commissioning, operation, maintenance or repair of the device must:

- be suitably qualified
- strictly observe these operating instructions

Improper operation or misuse can lead to

- serious personal injury
- damage this device and user's equipment
- * reduce the efficiency of this device

These operating instructions emphasize some important information of safety instructions in four forms



Give the word of "Warning" when ignoring a certain requirement will cause the life damage of operator. This is a warning of danger to life and health, disregarding this warning can lead to the serious or fatal injury.



Give the word of "caution" when ignoring a certain requirement will lead to the damage to the equipment. This information indicates particular danger to this device or other equipment of the user, but the serious or fatal injury can't be excluded.



In order to emphasize at any time, the word of "Note" will be used, remind it should be careful when operating according to the requirements of "Warning".

Prompt:

It is the important instructions for a certain item.

1.2 Illegal operation

We shall not be liable for any loss caused by unauthorized alteration or incorrect modification of the product.



Failure to modify the product without the permission of the manufacturer will result in personal injury, property damage and equipment failure.

1.3 Purpose

ZD motor drive mechanism is used for the driving and control on load tap changer and off circuit tap changer. It connects to the auto voltage regulator or computer and can achieve the auto control of on load voltage regulation system.

The technological performance of motor drive mechanism meet to the requirement of GB/T10230.1<Tap Changer Section 1: Performance Requirement and Test Method> and IEC60214-1<Tap Changer Section 1: Performance Requirement and Test Method>.



This mechanism is only used for driving the tap changer with the same factory number.

The installation, electrical connection and commissioning should be performed by the qualified and skilled person according to these instructions.

This mechanism whether to be used for the specified purpose depends on the user himself.

1.4 Function and interface

- 1.4.1 Manual & motor operating;
- 1.4.2 Remote & local operating;
- 1.4.3 Local tap position indicator;
- 1.4.4 Local tap changing indicator;
- 1.4.5 Local number of operations recorded;
- 1.4.6 Transfer to remote/stop/local operating;
- 1.4.7 Local block & power failure alarm indication;
- 1.4.8 With over current lockout protects passive input contacts;
- 1.4.9 With remote $1 \rightarrow N$, $N \rightarrow 1$, STOP passive input contacts;
- 1.4.10 With tap position corresponds to a passive signal output;
- 1.4.11 With tap position BCD code passive output signal;
- 1.4.12 With a set of independent motor operation signals output and the signal can also be used for passive signal output terminal of oil filter;
- 1.4.13 With passive signal output: Remote/local conversion, motor running, switch unfinished, mechanical faults;
- 1.4.14 With RS485 and fiber optic communication interface(Special configuration), choose one of them, fallow MODBUS protocol;

1.5 Product feature

- 1.5.1 Following the step-by-step control principle, that is, when the tap changer switches from a tap position to an adjacent tap position, it only receives one operation command; if a tap changer is required, the setting motor can automatically override the position;
- 1.5.2 With position memory function. Motor driver mechanism can remember the position, if the power supply is interrupted during operation; Motor driver mechanism can continue to complete tap change operating in this position, when the power to restore power;

- 1.5.3 With the protection of the phase sequence disorder protection circuit, when the power supply into the line phase sequence error, the control circuit automatically detects and alarms:
- 1.5.4 With prevent running gear, prevent tap changer linked;
- 1.5.5 With machine and electric position limitation protection, to prevent tap changer to the extreme outer direction;
- 1.5.6 The box and lid are made of stainless steel materials, sealing property is superior and beautiful. More conform to the requirements for outdoor use. Protection grade IP66;
- 1.5.7 Electrical control functions use microelectronic components, programmable program and information technology instead of traditional relays and their logical circuits:
- 1.5.8 Signal transmission with BCD code, remote control and all kinds of hard contact status signal transmission, at the same time, increased the RS485 communication transmission, reliable performance, increase when special needs without being limited by the signal attenuation and transmission distance, strong anti interference ability of the optical fiber transmission to replace traditional control cables;
- 1.5.9 Break the traditional manual operation mode, hand-operated equipment and hand tools to be one.

1.6 Environment condition of using

- 1.6.1 The using ambient temperature is $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
- 1.6.2 The incline degree of installation: not exceeding 5° ;
- 1.6.3 There is no serious dust and other explosive and corrosive gas in the using site.



If ambient temperature over the range in 1.6.1, user may request when ordering, we will meet the demand by special designed.

2. Motor parameters

See table 1

No.		Specification	Technical Parameter	
	Motor parameters	Rated power	0.75kW	
		Rated voltage	220V/380V, 3 phase	
1		Rated current	3.48A/2.01A	
		Rated frequency	50 Hz	
		Rated revolutions	1400 r/min	
2	Rated torque o	f drive shaft	18 N.m	

3	Revolutions of hand crank per step tap change	33		
4	Revolutions of drive shaft per step tap change	33		
5	Time of per step tap change	Approx 6 s		
6	Number of max. tap positions	35		
7	Voltage of control and heating circuit	AC 220V		
8	Consumed power of the heater	50W		
9	To the ground insulation test (Power frequency)	2kV • 1min		
10	Protect level	IP66		
11	Machine life	Over 1000000 times		
12	Weight	Approx 78 kg		
13	Apply controller(*1)	CY50 or YK-6		

Note: (*1) The controller is fittings selection. Other data is standard design. Different order conditions different data. This data sheet are subject to change without prior notice.

3. Structure

ZD Motor drive mechanism consists of cabinet, gear drive mechanism and control mechanism, position indication device and etc., the layout diagram of inner electrical components is showing in figure 1.

3.1 Box body, box cover

The box and box cover are made of corrosion-resistant stainless steel, the sealing performance is superior, the appearance is beautiful, more accord with outdoor use requirement.

The box and box cover are connected by hinges, the standard product box is open in the direction of the left, and the opening angle is 180

The box and box cover are seal by sponge rubber, all open holes required for operation are completely sealed (transmission shaft, observation window, etc.). This ensures the protection against dust and splashing water. (Level of protection IP66)

The left and right sides of the box each have a labyrinth with a metal mesh, to make air circulation in the box, and to prevent the invasion of insects.

The lower side of the box is provided with two cable entry holes and a communication cable entry hole, as the inlet and outlet channels

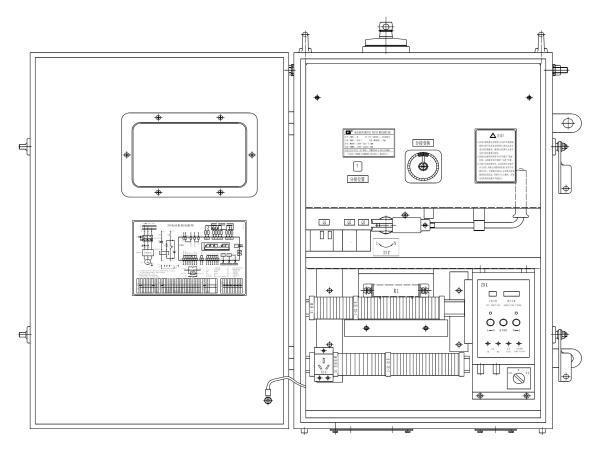


Figure 1

3.2 Transmission part

The transmission part is located in the upper body.

3.2.1 Transmission mechanism

The transmission mechanism in the up half of the box. In the front of a protective plate, to prevent accidentally hit. Transmission mechanism motor through wear resistance wedge belt reduction drive, low noise. Per level tap change operation can output turns 33 times. (=hand crank turns 33 times.)



3.2.2 Mechanical instructions

The mechanical instructions of the motor driver mechanism is composed of the tap position indication and the tap change indication, which the tap position is indicated by the indicator wheel; the tap change is indicated by the pointer disk, and the green area on the pointer disk is indicated the initial position of the tap change operation by the center line. When the motor driver mechanism finished a tapping position, the tap change pointer rotates 360 $^\circ$ and the tap position indicator turns 10 $^\circ$. The recording tap changer's tap position and the tap change state can be observed in the window of the cover.

Prompt:

The centerline mark of the green area of tap change pointer disk is used as reference position when the tap changer is connected to the motor driver mechanism. After the end of a tap change, the pointer in the centerline mark of the green area stop position should be correct, the pointer is a small offset is allowed.



The tap change pointer is prohibited from self-adjustment after leaving the factory. Otherwise, it will cause the motor stop position to be incorrect.

3.2.3 Tap position transmission device

Tap position transmission device adopts the printing plate coding method.

In standard products, there are two sets of signals for the output of tap position transmission device: One group is used as electrical control part of the signal collection, and the other group is directly output to the user..

The signal output is first closed and then broken

In order to facilitate user connection, the electrical wiring of the tap position transmission device is connected to the terminal of the lower part of the box body.

Prompt:

The signal output on the terminal is: The passive output position and BCD code passive output position are corresponding, to be used when the user to connected the position signal. If the decimal code signal or resistance position signal is to be output, and other tap position signals are required, The user can request the request when ordering, we can meet the corresponding usage request through special design.

3.2.4 Hand crank device

There are hand crank device and hand cranking operation tools are combined in motor driver mechanism, it also has the interlock protection of manual and motor operation, ensure manual operation is safe.



- 1. When the motor driver mechanism is operated manually, please strictly follow the attention mark of the motor driver mechanism pay, or it will affect motor operation or not motor operation.
- 2. After the safety switch of hand crank, cut off the main circuit two phase power supply, do not cut off the control circuit power supply.

3.2.5 Protective plate

The protective plate is a plate of the mechanical transmission part of an motor driver mechanism, to prevent arbitrary adjustment or accidentally touched.



Protective plate only in the maintenance of electric only need to open, open the shield must be a professional maintenance staff.



Before opening the plate, be sure to disconnect the motor's protective switch to prevent accidental start-up of the motor-drive mechanism.

3.3 Control part

3.3.1 ZDK Controller (Figure 2)

The electric control part of the ZD motor driver mechanism is completed by a separate control module ZDK controller.

ZDK controller main feature:

- Display operation status and tap position;
- Record and display the number of operations;
- Set the local operation button and local/stop/remote switch.
- Check power supply and lock and light alarm;
- Check the temperature and humidity in the box and output control signal;
- Output a variety of status signals and control signals;
- With RS485 communication interface and optical fiber communication interface (special configuration).

State of the communication lamp on ZDK controller:

RX - Flash when it is received;

TX - Flash When RX receives the correct data and sends the data.

The RS485 communication interface or optical fiber communication interface follows MODBUS protocol, and the protocol is detailed in the appendix.

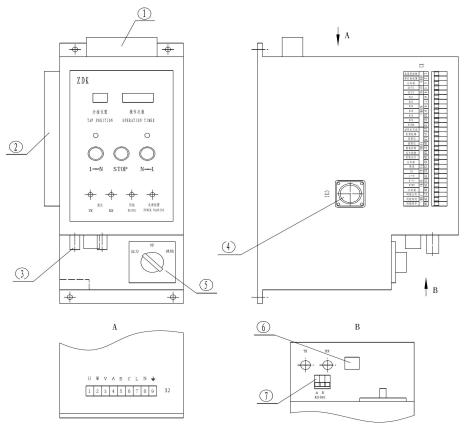


Figure 2

- (1) ZDK/X2 terminal
- 2 ZDK/X1 terminal
- ③ ZDK/Filter terminal

- 4 ZDK/CX1 terminal
- (5) ZDK/S4 changeover switch
- (6) ZDK/standby extension interface

7 ZDK/RS485

3.3.2 Heating equipment

There is a 50W heating resistor R1 in motor driver mechanism, which is used to heat to prevent cold condensation due to temperature changes. That will emit signal to control heating resistance when ZDK controller to detect the temperature in the cabinet below 5° C and humidity $\geq 88\%$ RH $\pm 5\%$ RH.

3.3.3 Electric wiring

Internal wire of motor driver mechanism: Black flexible wire (1.5mm²) to be wire of main control circuit of motor driver mechanism, black flexible wire (1mm²) to be wire of electric control part, multi core cable and black flexible wire (1mm²) to be wire of tap position transmission mechanism .

RS485 transmission interface wire: RS485 communications special cable.

Optical fiber transmission interface wiring(special requirement): Special cable for optical fiber signal.

Prompt:

Max.diameter of wire is 4mm² flexible wire for external terminal in motor driver mechanism.

3.4 Driving motor

ZD motor driver mechanism use a three-phase asynchronous motor, the standard product voltage is 3 phase 380V, frequency is 50Hz. The motor is mounted on the below of the transmission mechanism.

3.5 Remote controller

Remote controller can be configured for ZD motor driver unit according to user demand. The supporting models are: CY50 tap position monitor or YK-6 on load voltage regulating controller.

CY50 tap position monitor transmission cable is RS485 communication cable.

The transmission cable of YK-6 On-load voltage regulator controller is RS485 communication cable or fiber optic cable (special configuration), choose one of them.

The remote controller is installed in the control room.

Prompt:

- 1. When the remote controller needs to with the CY50 or YK-6, the user must request when ordering.
- 2. CY50 and YK-6 details, please refer to the instruction manual. YK-6 can auto voltage regulating, parallel operation.

4 Installation

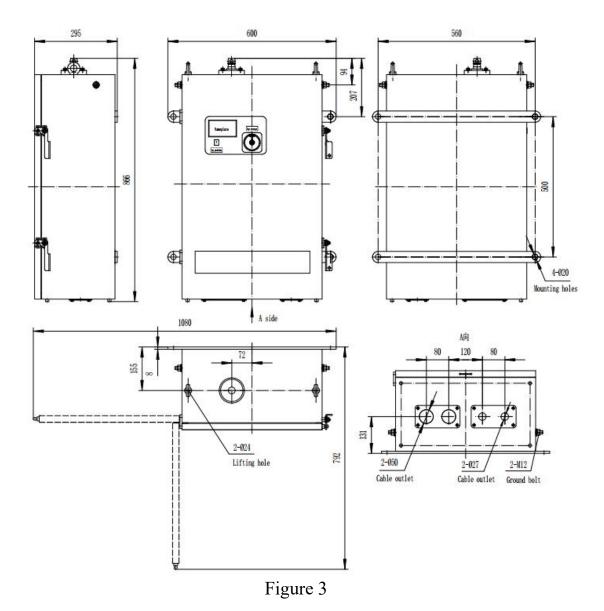
Outline and installing dimension as Figure 3.

4.1 Installation of motor driver mechanism

Motor driver mechanism is installed on the side of the transformer tank, by 4 M16 \times 60 bolt and nut and pring washer and washer.

In the case of larger vibration, damping measures are recommended for installation;

The box grounding position is on both sides of the upper and left of the box body, and the ground stud is M12, as Figure 3.



^ NOTE

- 1. Serial Number of the motor driver mechanism must correspond with the tap changer.
- 2. Motor driver mechanism and the tap changer must be in the same setting position. This position is indicated in the tap changer wiring diagram provided with the tap changer.
- 3. Motor driver mechanism is installed vertically on the side of the transformer tank and shall not be skewed. The drive shaft and the drive shaft of cone gear box is adjusted to a straight line to avoid damage to the motor mechanism, the on-load tap-changer and the transformer.

4.2 Installation of cone gear box and drive shaft

Installation of cone gear box and transmission shaft, see On load tap changer operation instruction.

4.3 Check the connection between tap changer & motor driver mechanism

Check the connection between the tap changer and the motor driver mechanism, see On load tap changer operation instruction.

4.4 Electrical wiring of the motor-drive mechanism



Before the motor driver mechanism is connected to power, you must comply with the relevant safety regulations to prevent serious or fatal injuries.

Motor driver mechanism wiring is carried out according to the circuit diagram of the box cover. (Figure 4).

4.4.1 Figure 4 Terminal board

X1 control: Include remote instruction input and block signal input;

2-X2 signal: For correspondence tap position signal output; (N is Max.number of tap position, N+1 is tap position signal COM)

X3 AC power: Include Motor driver mechanism working power and auxiliary power input.

Prompt:

When the power line are default phase, anti phase and low power supply voltage, the ZDK controller "power alarm" indicator light is lit, while the motor operation is closed.



- 1. The blocking signal is Passive normally open or Passive normally close, user can choose one to use.
- 2. When the current blocking signal is not normally closed, the terminal is short connected; When the current protection device is equipped, the short wiring must be removed and correct connecting to over current normally closed contact.

Prompt:

Figure 4: 1-X2:12&13 to be a set of independent motor running signal output in X1 terminal, this signal also can use for passive signal output of oil filter.

4.4.2 Communication interface connection

The communication interface is set on the lower side of the electrical control module ZDK controller, mainly used for connected with remote controller (CY50 or

YK-6) by RS485 communication cable or fiber optic cable (special configuration) . To achieve the remote controller and the local electric machine operating status information transmission.

RS485 communication interface have connected to ZD/1-X2 signal terminal 23, 24, 25, and 1-X2: 25 is communication cable shield layer contact.

When ZD Motor driver unit connected to CY50, the transmission information of RS485 communication interface is: tap position, operation instruction.

When ZD Motor driver unit connected to YK-6, the transmission information of RS485 communication interface or optical fiber communication interface is: tap position, operation instruction, state signal, operation number, etc. Choose one of 2 kind of communications..



The minimum bending radius of the optical fiber at the time of use or arrangement is R30mm

Prompt:

There are communication cable inlet on low side of motor driver mechanism, bore diameter \emptyset 20.5.

Prompt:

When the ZDK local controller and the remote YK-6 on load voltage regulating controller communication is normal, the TX and RX communication indicator flashes on ZDK controller mean connected correctly, or mean the connection failure. Please switch the connection of the A, B terminal of RS485 interface or connect the two fibre-optic connecting plug.

Prompt:

In the case of transformer or tap changer debugging, test, and no remote control, the motor driver mechanism can operate separately, don't need the remote controller. After the power is connected as Figure 4 or Figure 5, the "local" controller mode is selected on the motor driver mechanism to operate.

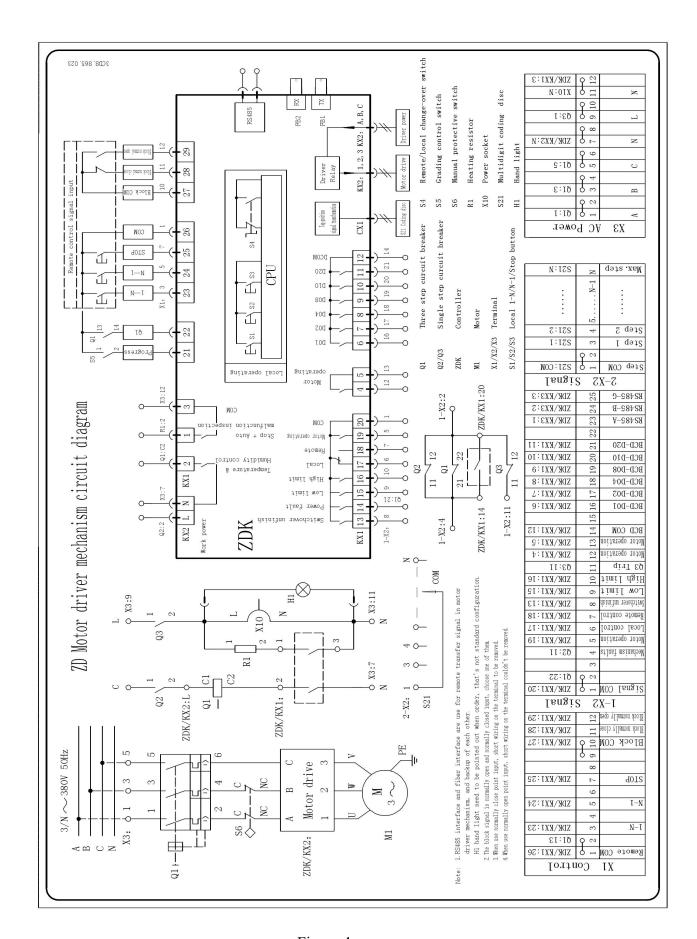


Figure 4

5 Place in service

5.1 Function test

5.1.1 Preparation



The function test must be carried out after the power supply voltage is connected. The coupling of the motor driver mechanism and the tap changer must be correct, to make sure the switching operation of the tap changer before the motor driver mechanism stop operation. Also make sure the position indication of the tap changer and the motor driver mechanism are the same in each operation position. These measures can prevent damage to motor driver mechanism, tap changer and transformers.

Be sure to strictly observe relevant safety procedures to prevent serious or fatal injuries.



Main power must fully meet each requirement of wiring in motor driver mechanism.

Prompt:

S4 changeover switch must place in "local" position when opearating local button $1\rightarrow N$, $N\rightarrow 1$, STOP.

S4 changeover switch must place in "remote" position when opearating remote button $1\rightarrow N$, $N\rightarrow 1$, STOP.

5.1.2 Check power

When the power supply line are short of phase, opposite phase, low power supply voltage, circuit breaker Q1 is not closed. The ZDK controller "Power alarm" signal light is lit. At the same time, the electric power should be checked and the power supply should be checked until the "power alarm" indicator is out.

5.1.3 Protection and check for manual operation and electrical block.

When hand crank is operated, have to manual open the circuit breaker, and confirm ZDK power alarm light, than the hand crank can be operated, or it is may cause serious personal injury.

Remove the hand rocker from neck, rotate 90 ° downward and stand the hand rocker when operating the hand crank devices. At same time, cut off the motor main circuit power after manual safety switch operating. ZDK controller "power alarm" indicator light is on, the ZD motor driver mechanism can not carry out electric operation.

When manual operation, the axle sleeve is slide to the direction of the motor driver mechanism, so that the hand rocker is not skewed, and the manual operation can be carried out easily. After manual operation, the hand-crank device must be returned to the original state, and the hand rocker is stuck in the slot, otherwise the manual protection switch cannot be reset, affecting the electric operation.

5.1.4 Step by step inspection

- Operation(Press for many time or hold on during operation)"1→N" or "N→1" button to start tap-change operation.
- Check whether the electric mechanism will stop automatically after the operation of the switching operation, and whether the pointer will stop at the center line of the green area.
- This test will be carried out in both directions.

5.1.5 Highest and minimum check

- When motor driver mechanism run to limit N, operating "1 → N" button, and motor driver mechanism can't start again. Check and confirm.
- In a similar way, when motor driver mechanism run to limit 1, operating " $N \rightarrow 1$ " button, and motor driver mechanism can't start again. Check and confirm.
- Check if the number of the split position indicates whether to stop in the small window, and whether the pointer of the tap is pointing to the center line of the green area of the dial.

5.2 The operation of the motor driver mechanism in the operation site

Repeat 5.1 function tests before the transformer is put into operation.

Connect the motor driver mechanism body with a transformer tank by a conductor, grounding bolt M12.



- 1. If the test is not pass for motor driver mechanism in 5.1 function tests, the transformer is absolutely not operational, or it will cause serious or fatal damage.
- 2. Tap position of motor driver mechanism is same with tap changer, or it will result in serious failure operation of the tap changer and motor driver mechanism.

6 maintenance and overhaul

ZD motor diver mechanism do not need to independent periodic maintenance, but they can also be used for routine maintenance according to the routine maintenance of transformer.



Relevant safety procedures must be strictly observed, or it can cause serious or fatal injuries.

ZD motor driver mechanism carries out the following routine inspection:

- Check whether the electric seal is good or not, Look inside for water inflow, whether there is dust or not, use a brush to clean the dust;
- Check whether the dehumidifying heater in motor driver mechanism is good or not;
- Check whether the electrical control module of ZDK controller and the attachment of the terminal are loose or not, if loose, should be fastened with a screwdriver (care for electric);
- Check whether the tap position of the ZDK controller is consistent with the mechanical indicator wheel or not;
- Check whether the action of the counter is normal or not;
- When connect of remote CY50 or YK-6 controller to check whether the communication lights on ZDK controller are flashing normally of not.

When maintenance for tap changer, should be tested for motor driver mechanism according 5.1.

Common failures and solutions see table 2:

No.	Common fault	Solution			
1	ZDK controller blank screen, digital tube is not bright.	Check whether the external access power is correct; Check whether safety F1 is good or not; Contact manufacture to replace ZDK controller.			
2	ZDK controller "power alarm" indicator light is lit → open air switch.	1 1			
3	ZDK controller "tap position" display $0 \rightarrow$ open air switch.	Check whether the cable head of ZDK controller is plugged in or not; check tap position disk output signal; Contact manufacture to replace ZDK controller.			
4	Slip gears, tap position pointer is not in the green area when stop → open air switch.				

7. User notes

- 7.1 User must provide model of tap changer, step of voltage regulating, middle position, the required input and output function interface in order.
- 7.2 Remote control whether the supporting cable length can be supplied according to user orders.
- 7.3 Under the custody and usage rules, 12 months from installation, and from the manufacturer to deliver goods to the user does not exceed 18 months period, because of manufacturing quality products damaged or not working situation, factory can be free to replace or repair for the user.

8 Appendix: ZDK MODBUS protocol

ZDK controller use MODBUS RTU agreement.

The controller communication physical layer use optical fiber or RS485, baud rate 4800, data format are 1 bit to be starting bit, 8 bit to be data bits, no checksum, 1 bit to be stop bit.

The ZDK controller opens the function code of 03, 05 and 06, so as to facilitate the user to read the information of the controller, and the operation of the controller to promote, reduce, stop, and modify the address of the machine.

Read date (function code 03H)

The example of the following table is an instance of reading the current splitter position (register 03) from machine 01.

Data frames received from the machine (ZDK controller)

Slave	Function	Start	Start	Read data	Read data	CRC16	CRC16
address	code	address	address	number of	number of	low	high
		high	low	high	low		
01H	03H	00H	03H	00H	01H	74	0AH

Slave (ZDK controller) returns the data frame (current tap position is 06)

Slave	Function	Data length	Data segment (2 byte)	CRC16	CRC16
address	code			low	high
01H	03H	02H	00H, 06 H	38H	46H

ZDK controller data call address table:

Address	Parameters	type of data	Attrib utes	Remarks
0001H	Max tap position	Uint16	R	
0002H	Min tap position	Uint16	R	
0003H	Current tap position	Uint16	R	The upper 8 bits are 10,11,12, corresponding to a, b, c, low 8 bits for the stall (example: 22a, data is 0x0a16)
0004H	High number of actions	Uint16	R	
0005H	Low number of actions	Uint16	R	
0006Н	Temperature value	Uint16	R	
0007H	Humidity value	Uint16	R	
0008H	State quantity	Uint16	R	
0009Н	Link position 1	Uint16	R	Format with register 3
000AH	Link position 2	Uint16	R	
000BH	Link position 3	Uint16	R	
000СН	Link position 4	Uint16	R	

000DH Link position 5		Uint16	R	
000EH	Link position 6	Uint16	R	

Status description

No.	Bit address	Description		
1	Bit1~bit2	Working mode: 00 - stop, 01 -local, 10 - remote		
2	Bit3	Run status: 0 - switch to place, 1 - switching		
3	Bit4	Lock Status: 0 - Unlock, 1 - Locked		
4	Bit5	Fault state: 0-ready, 1- open air switch		
5	Bit6	Fault state: 0 - ready, 1 - power failure		
6	Bit7	Fault state: 0-ready, 1-self fault		
7	Bit8	Minimum limit: 0 - normal, 1 - minimum limit		
8	Bit9 Maximum limit: 0 - normal, 1 - maximum limit			
9 Bit14 Action direction: $0 - \text{no action}, 1 - \text{N} \rightarrow 1$		Action direction: 0 - no action, 1 - N → 1		
10	Bit15	Action direction: 0 - no action, 1 - 1 → N		

Remote control format description (function code 05H)

Remote rise

Slave	Functio	Remote	Remote	Remote	Remote	CRC16	CRC16
address	n code	address	address low	instruction	instruction	low	high
		high		high	low		
01H	05H	00H	01H	FFH	00H	DDH	FAH

Remote drop

Slave	Functio	Remote	Remote	Remote	Remote	CRC16	CRC1
address	n code	address	address low	instruction	instruction	high	6 low
		high		high	low		
01H	05H	00H	02H	FFH	00H	6сН	0aH

Remote stop

Slave	Functio	Remote	Remote	Remote	Remote	CRC16	CRC16
address	n code	address high	address	instructio	instruction	low	high
			low	n high	low		
01H	05H	H00	03H	FFH	00H	3DH	CAH

Remote address description

Address	Parameters	type of data	Attributes	Remarks
0001H	Remote rise	Uint16	S	
0002H	Remote drop	Uint16	S	
0003H	Remote stop	Uint16	S	

Change of address

Slave	Function	Data address	Date address	Data	Data	CRC16	CRC16
address	code	high	low	high	low	low	high
01H	06H	60H	01H	00H	02H	47H	CBH

Note: Only ZDK controller can be modified within 5 seconds to modify the address.