

# **MPR**

## SCR DOSER TESTING MACHINE

## **Chapter I Product Introduction**

SCR urea pump controller is perfectly compatible with Windows and Android operating system.

The test software can be installed on any Windows and Android device.

SCR urea pump controller can automatically identify the connected test equipment, and can turn

on/off this function in the system settings, Available in two form factors.



## **Chapter II Functional Introduction**

1.main interface

1)nterface can select urea pump, sensor, system settings, online upgrade, user manual functions



2)Urea pump model selection interface, you can choose different urea pumps for testing



## SCR aftertreatment test system Connected Connected



SCR instructions for use of urea pump controller V1.00 SCR aftertreatment test system • Connected 🔇 Retu WeiFu (24V) WeiFu (12V) PowerGreen KaiLong (Square head) KDS KaiLong (Round head)





#### 2. Urea pump test



#### 1)Functional testing

#### A)Standby

Urea pump will stop function test in standby mode

B)Pre injection pressure build-up

After clicking the "pre-injection pressure" button, the SCR controller will carry out the operation of air evacuation and pressure establishment in the pipeline.

#### C)Clean (purge)

After testing, before dismantling the urea pipeline, you need to click the "Clean (Purge)" button. The SCR controller will control the urea pump to perform the cleaning operation, and the urea pump and urea solution in the pipeline will be purged into the urea box.<sub>o</sub> D)Large/Medium/Small Flow Injection After successful pressure building, click "large flow injection", "medium flow injection" and

"small flow injection" to observe the injection of urea solution.

#### **1Component testing**

Component testing can only be done in standby mode

#### 2Message hint

Display error, warning, prompt and fault information, etc.

#### **3.Nitrogen and Oxygen Sensor Testing**

	NOx sensor (	(24V)	• Connected	( Return
Test Run Time	Supply vol 23.9 V NOx(ppm Oxygen(% Power stati Heater tem NOx signa O2 signal	Tips	Service	Help ↔
Start Stop	Heater ern NOx erroi O2 error			

1)After connecting the oxynitride sensor, click the "Start" button to start the test. Nitrogen and oxygen sensors will be heated first. After about one minute, they will be heated to a certain temperature and stop heating. The oxygen concentration and nitrogen oxide concentration around the sensor will be

measured. The whole testing process is 5 minutes.

2)Whether the nitrogen and oxygen sensor is damaged or not can be judged according to the measured "oxygen concentration (%)" and "NO x (ppm)". In air environment, the oxygen concentration is about 20%, and the range of NO x ppm is 0-30.
Note: When testing the nitrogen and oxygen sensor, it will be heated automatically. It is strictly forbidden to touch the metal part of the sensor to avoid scalding. Do not splash water or liquid on the sensor to avoid scalding.

the sensor to avoid damaging the sensor

### **4.Measurement of Liquid Level/Temperature Sensor**

#### SCR instructions for use of urea pump controller V1.00

	Ten	iperat	uie/Leve
Urea	a solution		Tips
Model	CNHTC		
Temp resistan	4026531.8	34 ΚΩ	
Urea temp			
Level resistan	1649.15	ΚΩ	
Urea level			
Level height			

 $T_{\circ}$ 

1)The liquid level and temperature sensor are used to measure the resistance value of the sensor, and then convert it into urea temperature and liquid level height.

2)When testing the liquid level sensor, the sensor can be removed from the urea box and slid the float manually. At the same time, whether the liquid level resistance changes or not can be observed.

#### **5.Testing of Exhaust Temperature Sensor**

Exhaust gas temp sensor Connected Connected						
Exhaust gas temperature		Tips	Service Help			
Temp sensor	PT200	•				
Temp resistan	1602970 Ω					
Gas temp						

1)The detection of the temperature sensor is also to test the resistance of the sensor, and then convert

the resistance value to the temperature value according to the type of sensor.

2)Currently supports 3 types of temperature sensors: PT100, PT200, PT1000

#### 6.System setup

		Sy	sten	n setting	Connected	Return
General settings	Serial port ttyAMA0 🗸	Aut Yes	o identifi	cation test deivce		
Software version: V0.6.1 [GA] [build-558] [2018-12-03 17:24]						
About	Hardware version:		FW: HW: SN:	V1.1.09 [05DAFF30-3636484B-4321572 V1.3 [V1.3]		3215724]
			Type:	Std [2]		

1)Android version software connects SCR controller via Bluetooth

Bluetooth connection steps:

A)Click the "Scan" button to scan peripheral Bluetooth devices

B)After selecting the device in the Bluetooth device list, click the Connection Button. For the first pairing, you need to input PIN code (1234)

2)Windows version software connects SCR controller via USB cable or Bluetooth

#### 7.Online upgrade

Online Upgrade  Connected  Return							
Server	China Server 🕶						
Application	Current Ver V0.6.1 Lastest Ver V0.6.1	0%	Update				
Firmware	Current Ver V1.1.09 Lastest Ver V1.1.09	0% 0%	Update				

Both applications and firmware support online upgrades...

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#### 8.User's Manual

The interface can slide left and right to turn pages.

## SCR DOSER TESTING MACHINE



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