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LDS Medicine Stability Testing Chamber

User Manual



Please read operating manual before installation and operation.

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Thanks for purchasing the equipment, please carefully read the manual before operating.

I:Precautions

- 1) After the equipment is in place, lock the front casters to make the chamber stable.
- 2) To protect the compressor, pls turn on the instrument after 48 hours when placed.
- 3) Connect the 220V / 50Hz power supply, and the power socket should be reliably grounded.
- 4) The device should be placed in a place that is protected from sunlight, cool and ventilated. The distance between the device and the wall must be more than 10 cm. Handle with care, the angle with the ground level should not be less than 45°.
- 5) In order to maintain the good appearance of the equipment, pls do not wipe the machine surface with acid or alkali or corrosive substances. The inside and outside of the instrument can be regularly cleaned with dry cloth.
- 6) \triangle In order to obtain good working performance of the equipment, the difference between the working temperature and the environment should not be too large, and the ambient temperature should preferably be (20 ± 5) $^{\circ}$ C.
- 7) Fuse is installed at the back of the control box for this equipment. If the equipment is not powered, please check whether the fuse tube is intact. please cut off the power before checking and replacing the fuse tube and replace the same type and specifications!
- 8) Fans are installed in the operation room. Don't insert your fingers or objects into the fan cover to avoid safety accidents and damage to the fan .Please cut off the power before changing the fan.
- 9) Stop using ,please turn off the power switch.
- 10) Do not store flammable or explosive materials or hazardous materials in the instrument working room.
- 11) There is an overflow pipe on the back of this device. A small amount of water will be discharged during use. Please use a leather pipe to connect to the container or the sewer
- 12) There is a drain pipe at the back of the device. When the device is not in use, water is drained from the inside of the chamber.

II:Application

The product has a precise temperature an, humidity and light control system, which provides various environmental simulation conditions for industrial research and biotechnology testing. It's widely used in drug and food processing, etc.



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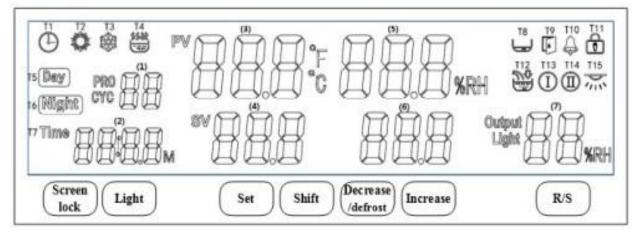
III. Technical Specifications

	DW-LDS-175Y-N/ LDS-175T-N	DW-LDS-175GY-N / LDS-175GT-N	DW-LDS-175HY-N
	DW-LDS-275Y-N / LDS-275T-N	DW-LDS-275HY-N	
	DW-LDS-375Y-N / LDS-375T-N		DW-LDS-375HY-N
Model	DW-LDS-475Y-N / LDS-475T-N	DW-LDS-475GY-N / LDS-475GT-N	DW-LDS-475HY-N
	DW-LDS-800Y-N / LDS-800T-N	DW-LDS-800HY-N	
	DW-LDS-1075Y-N / LDS-1075T-N	DW-LDS-1075HY-N	
	Temperature & Humidity	Temperature & Humidity & Light	Temperature & Light
Temperature Range(℃)	0~65	Without Illumination:4~50	
Temperature Fluctuation	High±0.5℃、Low±2℃		
Temperature Uniformity	±2		
(℃)			
Humidity Range(RH)	30~95%		
Humidity Stability(RH)	±3%RH		
Temperature	0.1		
Resolution(℃)			
Illumination(LX)	None 0~6000 adjustable		
Illumination	≤±500		
Difference((LX)			
Timing Range	1~99 hours/period		
Temp.and Humidity	Balance temperature and humidity adjusting Balance		Balance temperature
adjusting	adjus		adjusting
Cooling System	Imported compressor		
Controller	Y: Programmable (LCD display)	GY: Programmable (LCD display)	HY:Programmable (LCD
	T: Programmable (touch screen) GT: Programmable (touch screen) disp		display)
Sensor	PT100 PT100		
	Capacitance sensor		
Ambient Temperature	RT+5~30℃		
	1		



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Artis	t of Science web:www.urawei		
Power Supply	AC 220V±10% ,50HZ		
Power Rating(W)	1400/1950/2600/2800/3000/3200	1650/2200/2700/2900/3100/3300	1300/1750/2400/2600/27
			00/2800
Chamber Volume(L)	175,275,375,475,800,1075		
Chamber	450×420×930		
Size(W×D×H)mm	580×510×935		
	590×550×1160		
	700×550×1250		
	965×610×1370		
	950×700×1600		
Shelf	3		
Printer	Yes		
Safety Device	Compressor overheating and over pressure protection. Fan overheating protection, Over temperature protection,		
	Overload protection,water shortage protection		



IV:Operation Instruction

Panel instructions

Display window:

(1): period or segment value;

(2): timing or time setting value;





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- (3): temperature measurement value;
- (4): temperature setting value;
- (5) :humidity measurement value;
- (6) :humidity setting value;
- (7): heating output;

Key definition

Lock	Under normal display, long press the key for 2 seconds to manually lock or unlock the screen.	
Light	Under normal display, press the key to turn on the light inside	
Set	In the normal display, press the key to enter the modification interface of setting value , long press the key for 3 seconds to enter the parameter modification interface.	
Shift	In the setting state, press the key to make the setting value shift and modify. If running mode, can switch the display for segments or cycle.	
Increase	Press the key in the setting state to increase the setting value.	
Decrease	Press the key in the setting state to decrease the setting value.	
Run/Stop	In the normal display state, press this key to start or stop the operation	

Temperature and humidity setting

- 1)Before setting the temperature and humidity, please fill the equipment with pure water until the upper limit of the water level. Turn on the power switch and press the Run/Stop key to start the operation.
- 2)Press the set key, the number in (4) display window flashes, can set the temperature you by pressing shift, increase and decrease key.
- 3)Press set key again, the number of (6) display window flashes, can set the required humidity by pressing shift, increase and decrease key.

Temperature parameter table

Parameter indication	Parameter name	Description for parameter function	Factory default
Lc	password	When "Lc = 103", you can view and modify the parameter value.	0
тн	Upper deviation Over temperature alarm	If "Measured value> Set value + TH", upper deviation alarm will be turned on and temperature and humidity output will be turned off. During the alarm, the temperature alarm relay has output, the buzzer beeps, the alarm indicator lights up, the temperature unit flashes quickly, click any key to cancel the beep, and the relay turns off the output.	(0~20.0℃) 5.0
TL	L Lower deviation Over temperature alarm Over temperature unit flashes slowly. Click any key to cancel the beep. Note: When "TL = 0", this function is invalid.		(-50.0∼0℃) 0
Tb	Deviation correction	Correct the error caused by sensor (low temperature) measurement; Tb = actual temperature value-meter measurement value.	
TA	Slope correction	Correct the error caused by sensor (high temperature) measurement; TA = 1000 * (actual temperature value-instrument measurement value) ÷ instrument measurement value.	(-999~999) 0

Humidity parameter table

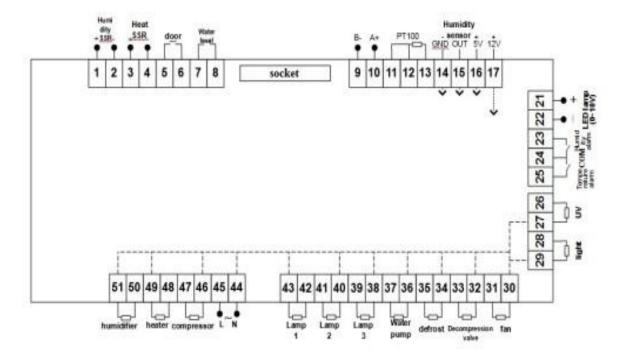
Parameter indication	Parameter name	Description for parameter function	Factory default
Lc	password	When "Lc = 103", you can view and modify the parameter value.	0



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НН	Upper deviation Over humidity alarm alarm Upper deviation Over humidity alarm Upper deviation Over humidity alarm If "Measured value> Set value + HH", upper deviation alarm will be turned on and he output will be turned off. During the alarm, the humidity alarm has output, the buzzer beeps, the alarm indicator lights up, the humidity unit flat quickly, click any key to cancel the beet the relay turns off the output.		(0~50.0%) 20.0
HL	Lower deviation Over humidity alarm	If "measured value <set "hl='0",' +="" alarm="" alarm,="" alarm.="" an="" and="" any="" be="" beep.="" beeps,="" buzzer="" cancel="" click="" deviation="" during="" flashes="" function="" has="" hl",="" humidity="" invalid.<="" is="" key="" lower="" note:="" output,="" quickly.="" relay="" td="" the="" there="" this="" to="" unit="" value="" when="" will=""><td>(-50.0~0%) 0</td></set>	(-50.0~0%) 0
Hb	Deviation correction	Correct the error caused by sensor (low humidity) measurement; Hb = actual humidity value-meter measurement value.	(-99.9 ~ 99.9%) 0
Slope correction Slope HA = 1000 * measu		Correct the error caused by sensor (high humidity) measurement; HA = 1000 * (actual humidity value-instrument measurement value) ÷ instrument measurement value.	(-999~999) 0

V:Wiring diagram

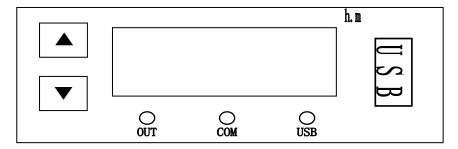


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VI:Printer Instruction



- 1. Time display:in normal conditions, display the current time (hours and minutes)
- 2. OUT indicator: the light turned on, indicates that there is a printout or data is written to the U disk;
- 3. COM indicator: flashing light indicates the current communication is normal;
- 4. USB indicator: the light turned on means that the current U disk has been correctly inserted and data can be written;
- 5. Increase key: Under normal state, click or long press the key to increase the printing interval time setting value. Under parameter setting state, click or long press the key to increase the parameter setting value, when the time setting value is the maximum, then press this key again will automatically flip to the minimum value;
- 6. Decrease key/OK key: Under normal state, click or long press the key to decrease the setting value of printing interval time. Under parameter setting state, click this key to switch the setting parameters, long press the key to exit the setting and save the set value:
- 7. Later 1 : Under normal status, long press two keys at the same time, after 3 seconds, enter the parameter setting state

Operation for printer

1)After powered on, the digital tube and the indicator light are all on for 3 seconds and then enter the running state. PRT indicator lights on, time window displays the current time (hours and minutes), the printer prints "Print Test", "Current Date", "Current Data" in sequence, the OUT indicator lights up when printing out. The data is printed according to





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the printing interval. When the date changes, the date is printed.

2) Under normal conditions, click or to set the printing interval. The setting range is from 1 to 9999 minutes; in normal status, long press the button for 3 seconds at the same time to enter the password input state, enter the corresponding password to adjust the time and parameters.

Tips for abnormal phenomenon:

Time display shows TErr: communication error,

- 1) Check whether the instrument communication line is connected correctly;
- 2)Check whether the power of the instrument is turned on;

Time display shows UErr: U disk read and write error,

- 1)Check whether the U disk is inserted correctly;
- 2) Format the U disk or replace the U disk;
- 3) If don't need U disk storage, can enter the internal parameters to close the U disk function;((if needed, pls contact supplier)

The time display shows PErr: the printer is wrong;

- 1)Check if the printer cable is connected correctly;
- 2) Check the indicator light on the printer, if it does not light, please confirm whether the printer power cord is connected correctly;
- 3)If do not need the printing function, can enter the internal parameters to close the printing function(if needed, pls contact supplier)

Printer indicator flashes: replace printing paper

VII: USB Instruction

Step 1: Install software



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Step 2: Copy data

(1) Find the USB interface on the lower right side of the instrument and plug in the USB

disk.



(2) Adjust the interval time according to your experiment requirements.



(3) As picture shows: data exporting (printer and data export normal).



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Step 3: Find and click the device monitoring system in program.

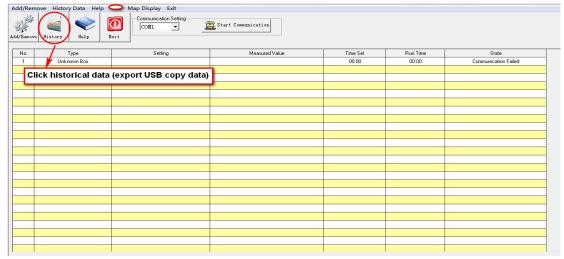


Step 4: Select device 1 and enter.



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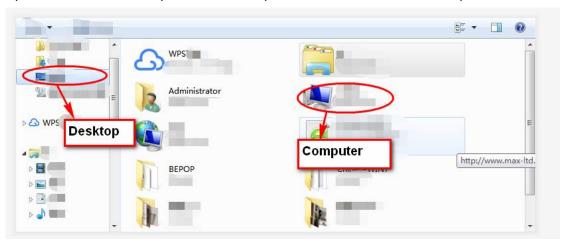
Step 5: Click to enter historical data.



Step 6: Click the external DAT file key (Insert the USB with data from instrument to the computer before this operation).

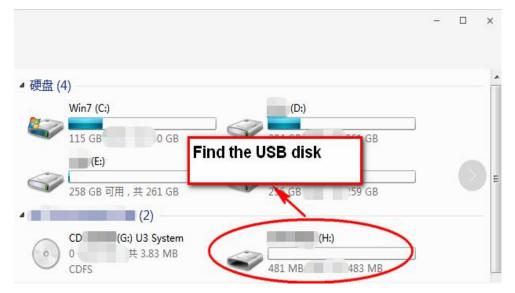


Step 7: Click on the desktop to find the computer and click to enter the computer.



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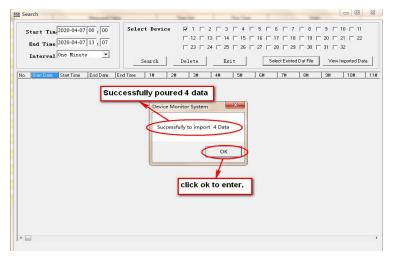
Step 8: Find the USB disk with data and enter



Step 9: Find the copied data and click open to enter.



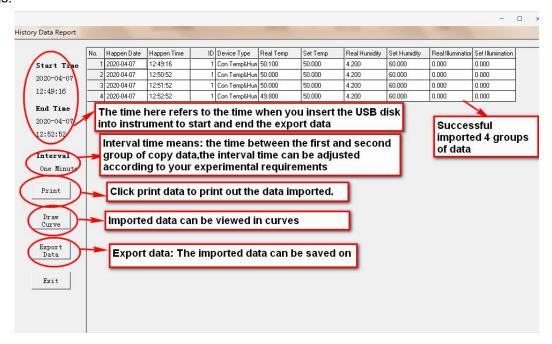
Step 10: After entering, it will show that XXX data has been successfully imported and click ok to enter.



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Step 11: Enter this step, you can see all the data you imported successfully and storage status.



VIII:Transportation and storage

- 1.Care must be taken during transportation. The tilt should not exceed 45 ° and can not be transported upside down. Handle it carefully.
- 2. Store in a relative humidity not exceeding 80%, non-corrosive gas and well-ventilated room.

IX:After-sales service

The warranty for the instrument is 12 months from delivery (except for the heating elements). If damaged due to non-human factors or can not work normally during warranty period, our company is responsible for free repair or replacement of product parts. Beyond the warranty, we try our best to provide convenience for users.



X:Malfunction handling

Problems	Reasons	Solution	
	Socket without power	Change socket	
No power supply	Not plugged or wire broken	Plug well or connect wire well	
140 power suppry	Fuse is open	Change fuse	
	Power switch not on	Switch on.	
The temperature inside	Set temperature is incorrect	Adjust the set temperature	
the chamber does not rise	Temperature controller is broken Change the temperature controller		
or fall	Loose cable	Tighten the connection cable	
	The sensor is broken	Replace the sensor	
Big deviation of temperature in chamber	The fan is broken Change the fan		
	The instrument is not corrected	Refer to the Instrument operation instructions for correction	
Humidity does not work	The internal humidifier is broken.	Change humidifier	
inside chamber	The humidification water tank is short of water.	Dredge the water way and add water	

Note: Maintenance operations shall be carried out by qualified personnel. Please turn off the power supply before repairing.

XI:Packing List

Item	Name	Category	Qty.	Remark
1	Constant Temp. And	Machine	1 Set	
	Humidity Chamber			
2	Instruction	Document	1 Сору	
3	Fuse	Spare parts	1pc	
4	This packing list	Document	1 pc	

We reserve the right to change the data in the manual without prior notice. The company has the final interpretation right.

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