

**Crystal Clear Vision for Precise Level Measurement**

# **Ecrystal**

## **CRC1305**

### **Remote Control User Manual**

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## **Disclaimer**

Ecristal makes no warranty of any kind with regard to the material contained in this manual, including, but not limited to, implied warranties or fitness for a particular purpose. Ecristal shall not be liable for errors contained herein or for incidental or consequential damages in connection with the performance or use of material



## **1. Introduction**

Remote control is designed for users to easily use our level meter, read data of level meter and Center host and set parameters.

Remote control communicates with level meter through 433 wireless modules, featured by large communication range and good signal quality.

Our commitment: stable product quality, warranty period of three years

Thank you for purchasing our products.



## 2. Materials Included

Please confirm package content

No.	Items	Quantity	Remark
1	Warranty card	1	
2	Remote control	1	
3	User instruction	1	
4	Kit	1	



### 3. Technical Support

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We are available to assist with any questions or concerns you may have regarding the operation and use of the Remote control.

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**Tel.:**

**Technical Support:** [Ecrystal.techsupport@gmail.com](mailto:Ecrystal.techsupport@gmail.com)

**Support Time:**

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*If you contact with us via e-mail, we will usually reply to you within 24 hours.*

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## 4. Product Specifications and Certifications

### 4.1 Parameters of remote control shuck

Battery specification	3100mAh Li-Polymer battery (15 h of continuous service, 10 h of charging time)
LCD screen	3.2-in TFT True Color screen display (65,000 colors)

### 4.2 Other parameters

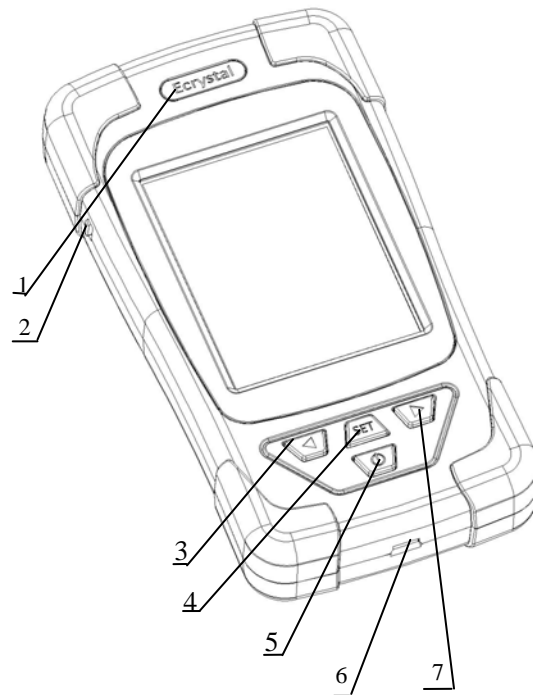
Power Input	USB 5V input
Working temperature	0~55 °C
Working humidity	0~55 °C
Waterproofing grade	Non-water-proof
Drop height range	1.5m



## 5. Product structure

Structure

Product show



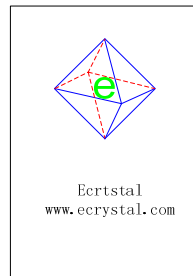
No.	Items	No.	Items
1	Company logo	5	Esc. key
2	Power switch	6	USB interface
3	Left Arrow	7	Right Arrow
4	Setting key (Enter key)		



## 6. How to operate the Remote control

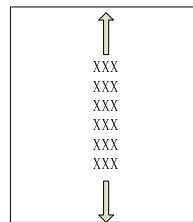
### 6.1. Startup picture

When users slide up the ON in the upper left corner of remote control, the remote control shows normal startup state and company logo.



The picture will automatically enter Address List after startup picture lasts 2 s.

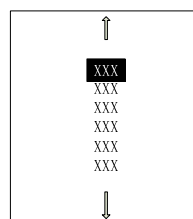
### 6.2. Address List



#### 6.2.1 Introduction:

Address list includes the addresses of  $n$  ( $n < 127$ ) level meters available to users. If the content cannot be displayed in one screen, users can read all by sliding the screen up/down.

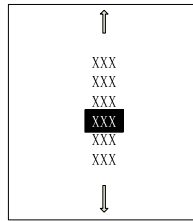
#### 6.2.2 Select address



When users click the address No. of a level meter with stylus, the address No. will be shown in black, thus the selection of level meter is completed.

#### 6.2.3 Cancel selection

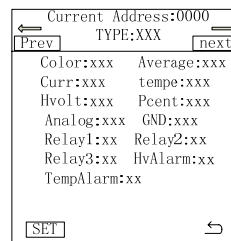




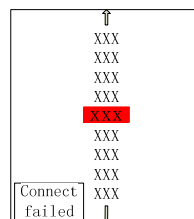
When users click another address, the address in black will be replaced by the address clicked.

#### 6.2.4 Establish communication


When users click the address having been selected once again, the measurement data reading interface of the level meter will be shown: it shows all measurement parameters of the level meter.



When remote control fails to contact with level meter and gives it up, the remote control keeps Address List and shows Connect failed! The address with Connect failed will be shown in red.

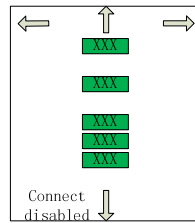



#### 6.2.5 Multi-screen display

When users touch  $\Rightarrow$  or press Right Arrow , the data interface of all level meters having been connected and Address List will be shown in cycle. The address No. previously connected will be shown in green background, (for example: if the level meter previously connected is No. 0001 and when users can click  $\Rightarrow$  and Address List is re-shown, 0001 will be shown in green background). At the moment, users can click another address No. to contact with level meter. And the data reading information of the level meter will be shown. Five times of operation as such are




allowed. After 5 times of operation, when users try to click a new address No. and get contacted, “Connect disabled” in red will be shown in the lower left corner of screen.




Under multi-screen display, when users click Left Arrow or press Left Arrow  on remote control, the remote control will communicate with the level meter previously connected successfully and the data obtained in communication will appear on the screen.

Multiple clicks to Left Arrow can realize cycling display of multi-level meter interface and the address Nos. of the level meters having been connected are shown in green background. On Address List, users can click Right/Left Arrow above to communicate with the level meter previously contacted successfully or communicate with a new level meter by clicking a new address No.

When users click the address No. in green background, remote control will automatically communicate with the corresponding level meter, show the level meter interface, and the data obtained in communication will be shown on the screen.

When users click , remote control will communicate with the level meter previously connected successfully and the data obtained in communication will be shown on the screen.

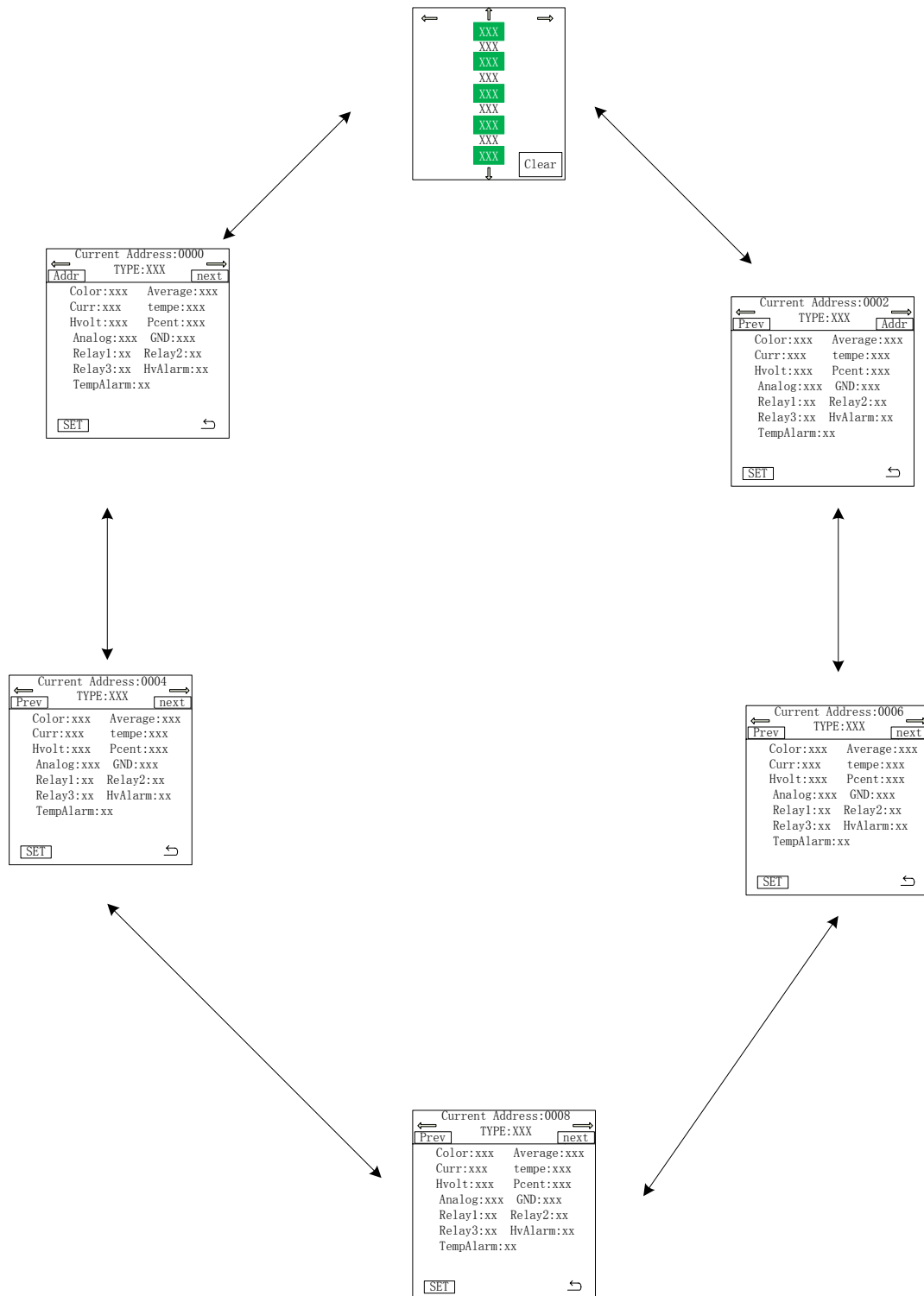
Multiple clicks of  can make remote control communicate in order with the level meters previously connected, and the data obtained in communication will be shown on screen. If the level meter information being shown is about the last level meter previously connected, address list will appear subsequently (the address No. previously connected successfully will be shown in green background). When users click right/left arrow above or press Right/Left Arrow in the bottom of remote control, remote control will communicate with the level meter previously connected successfully or communicate with a new level meter by clicking a new address No.





When users click the address No. in green background, remote control will automatically communicate with corresponding level meter, show the level meter interface, and the data obtained in communication will be shown on the screen.

Arrow navigation: on multi-screen display, right/left arrow has many functions. For convenience, explanatory note is provided below arrows for navigation.

Diagram: for better description, the following diagrams are in multi-screen display: for convenience and clear showing, five address Nos. selected are all shown on the first screen.

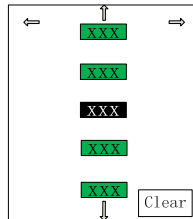


### 6.2.6 Break connection


On Parameters Reading interface (take address No. 0006 for example), users can click Break Connection  or press Esc. Key  on remote control to break the connection with current level meter and return to Address List (as is shown in the




following picture), and the address No. of the level meter whose connection has been broke is shown in reverse form (black background), and the address No. of level meter still connected is shown in reverse form (green background). Users can clear the reverse form of the address No. (black background) by clicking Clear.






### 6.2.7 Setup

On Parameters Setting interface, users can enter the Setup interface of the level meter being connected by clicking “Set” or pressing Set .

## 6.3 Parameter Setting Interface

When users click Set or press Set  on the measurement parameters display interface and enter the parameter setting interface of the level meter being connected,

Current Address:XXXX	
TYPE:XXX	
Full:xxx	Empty:xxx
Time:xxx	Rly3Set:xxx
Rly1Alarm:xx	Rly1AlarmF:xx
Rly2Alarm:xx	Rly2AlarmF:xx
Rly3Alarm:xx	Rly3AlarmF:xx
Set Router	
Software version	
	

Users can click Return  or  on keyboard to return to the parameter reading interface of the level meter.

Modify the parameters of the level meter being connected to remote control (take Full value for example)


Double-click Full, and then enter the following data input interface




Input data restrictions XXX		
1	2	3
4	5	6
7	8	9
C	0	enter

- Data input: Complete data input by clicking numbers 0 ~ 9.
- Delete wrong data: Click C to delete wrong data and then re-input.
- Confirm modification: Press enter and complete data modification.
- Return: when uses don't want to modify data, they can click C to return to data reading interface in the case of no input of new data .

## 6.4 Software upgrade

Users enter software upgrade interface through special startup mode (press  + switch)

Users enter software upgrade interface by pressing  +switch)

Chose the Function
Software upgrade
Software download
Software version
EXIT

### 6.4.1 Software Upgrade

When users double-click “Software Upgrade” option to enter software upgrade interface

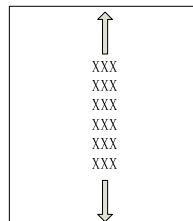
Software upgrade
Sensor software Upgrade
Remote control Upgrade
Address list upgrade
↩

### 6.4.2 Level meter software upgrade

When users click “Sensor software Upgrade”, Address List will appear for users’



selection, and when users double-click one address No., the software upgrade interface of the corresponding level meter will be shown (as is shown in the following diagram).



If remote control has the program of the level meter to be upgraded, “Please, wait programming.....” will be shown in remote control till upgrading finishes. If upgrading is completed, “Upgrade OK” will appear. If upgrading fails, “Upgrade Error” will appear.

#### 6.4.3 Remote control software upgrade

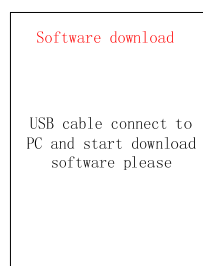
When users click “remote control software upgrade” and if there have stored software to be upgrade for remote control in flash, it will upgrade. When upgrade is completed, remote control will reset itself.

#### 6.4.4 Upgrading of address list of remote control

Upgrading of the current address list is not operated on the interface but Software Download introduced in Section 5.2.

#### 6.4.5 Software Download

When users double-click “software download”, “connect to computer” hint window will appear on the interface. Then, users can download remote control software, level meter software or address list to remote control through upper computer software. When download is completed, remote control will show “Download Complete Reset CPU”.



#### 6.4.6 Software Version

When users click software version, remote control will show software versions of the remote control being used and the one to be upgraded.



#### 6.4.7 EXIT

When users want to exit from software upgrade interface, they can double-click EXIT and remote control will restart, showing Address List for users to click and connect address No. with corresponding level meter.

### FCC Warning

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.