

How to register valve and moisture sensor

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Valve

Moisture sensor

**Needs to register sensor and valve one
by one**

First needs to enable zones before registration. For example, enable zone 3 of this system if we want to put this field controller into zone 3.



1. Turn power on

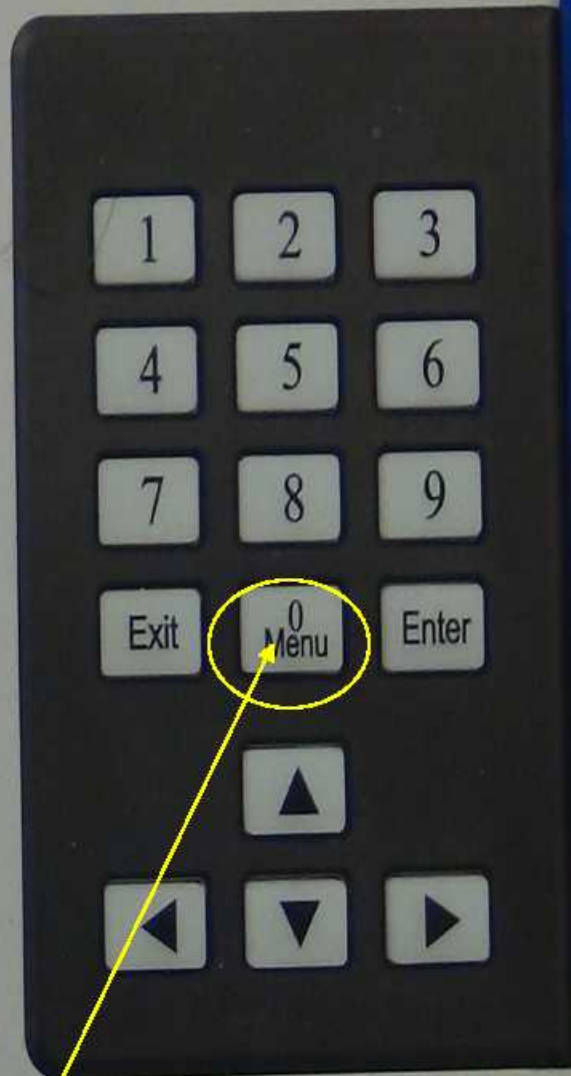
GG-002 WiFi 01-25 Mon. 10:06

Zone# [01]

Control mode	Soil moisture control	Current status	Idle
Soil PH/EC	Unregistered		
Irrigation		Fertilization	
#X	Unregistered	pump	#X Unregistered
#X	Unregistered	Master valve	#X Unregistered
Valve #1	Un-registered	Valve #2	Un-registered
Valve #3	Un-registered	Valve #4	Un-registered

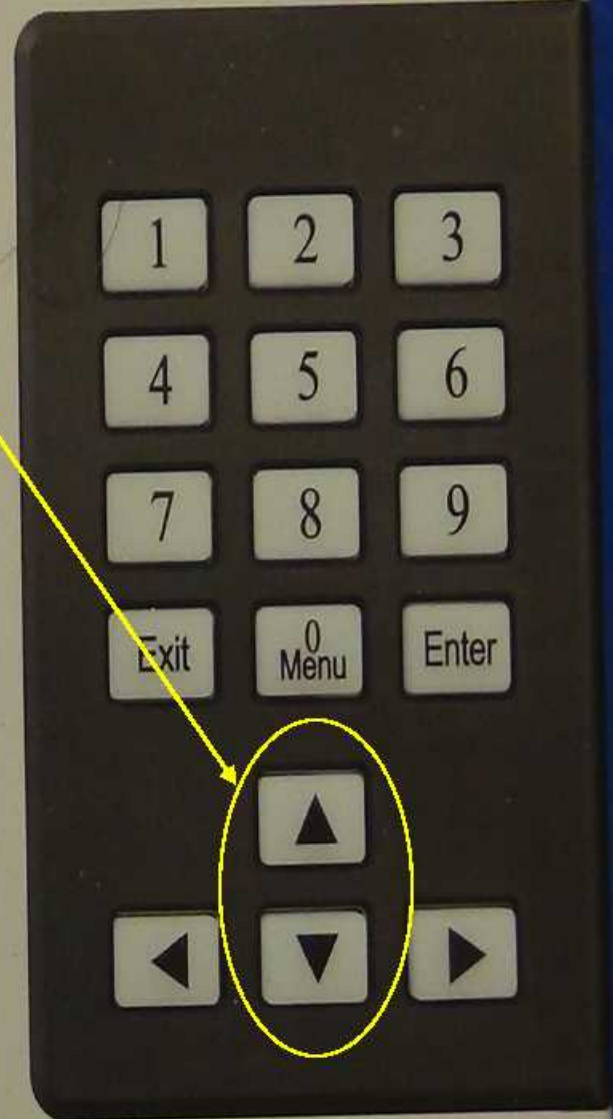
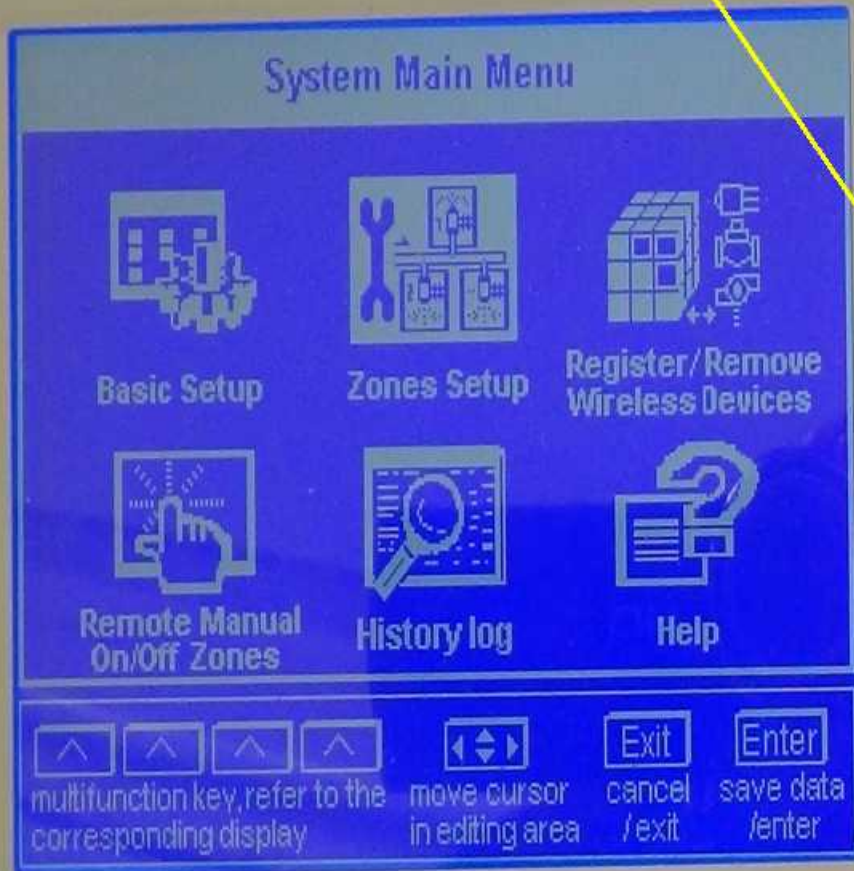
Alarm info

Other window Scan all devices now Remote on/off zone Enable/disable alarm buzzer

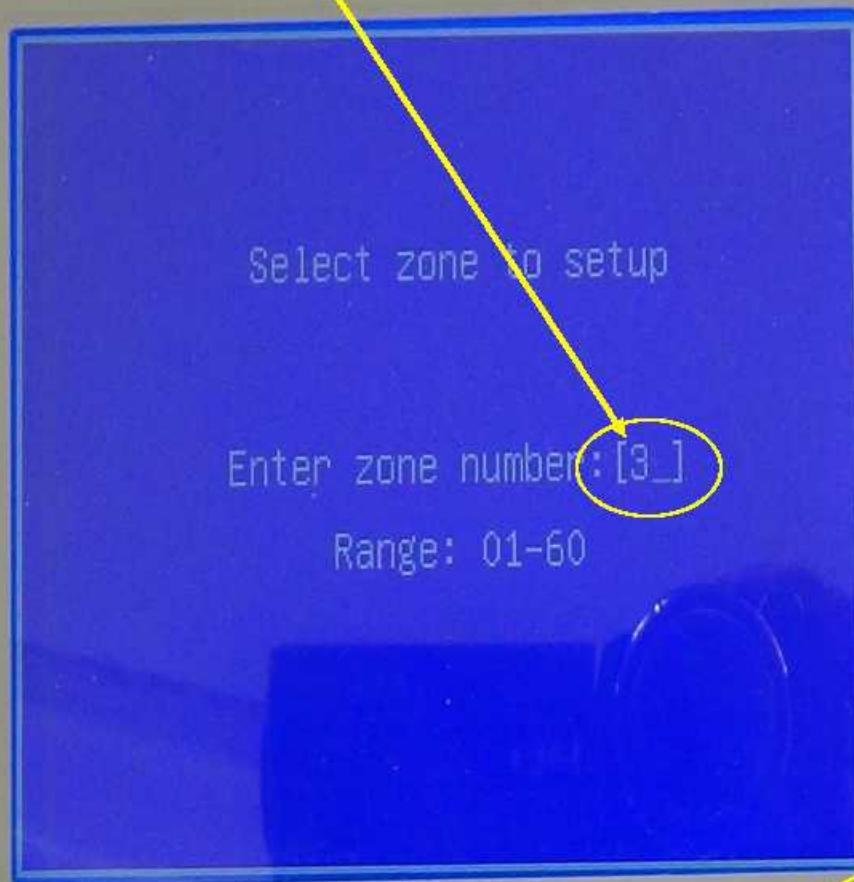


Push "Menu" key into main menu

Push up/down key, browse into "Zones Setup"



**1. Key in zone number, for example,
we here key in zone 3.**



2. Push "Enter" into this setup

1. Key in 2 here means enabled this zone.

-----SET UP ZONE NO. 03----- [1/8]

◆Zone presently is	[2]	En/dis zone
1. Disabled 2. Enabled		Control mode
		Sensor select
◆Control Mode is	[1]	Adjust control
1. Moist 2. Moist+Allow time		level /Rain
3. Timer 4. Timer+Rain detc.		sensitivity
◆Moisture sensor select	[1]	Allowed max
1. #1 2. #2 3. #3		length of
4. #4 5. use average value		irrigation time
◆Multiple Valve control	[1]	Assign pump/
1. Simultaneous 2. Sequential		master valve
		for this zone
Data + 1	Data - 1	Browse menu
		Browse menu

2. Push "Enter" to save



1. Saving....

-----SET UP ZONE NO. 03----- [1/8]

◆Zone presently is [2]
1. Disabled 2. Enabled

En/dis zone
Control mode
Sensor select

Adjust control
level /Rain
sensitivity

Allowed max
length of
irrigation time

Assign pump/
master valve
for this zone

◆Multiple Valve control [1]
1. Simultaneous 2. Sequential

Save Data....

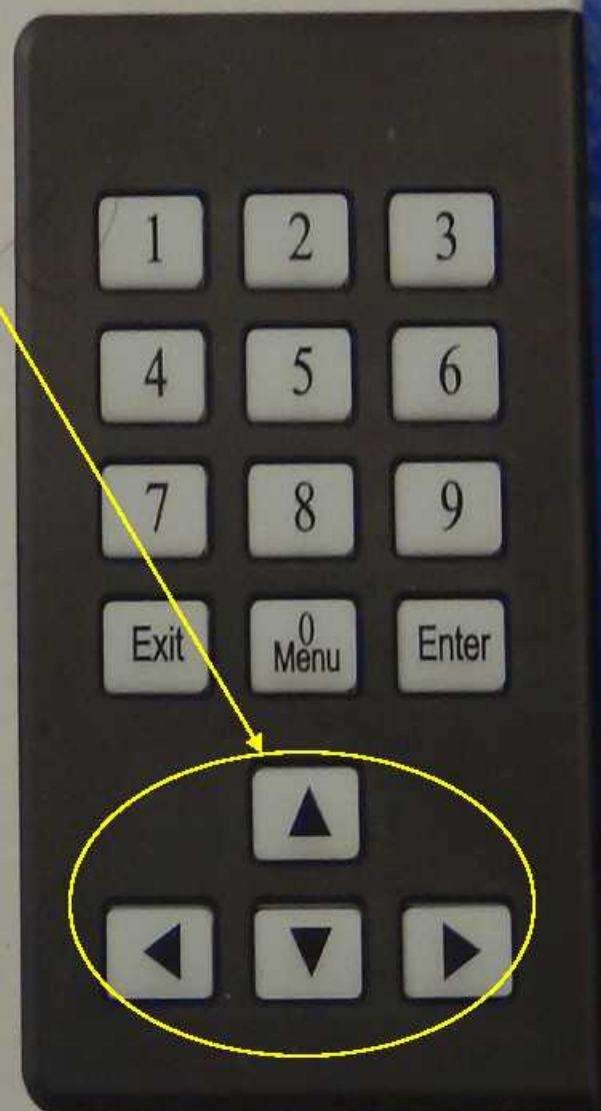
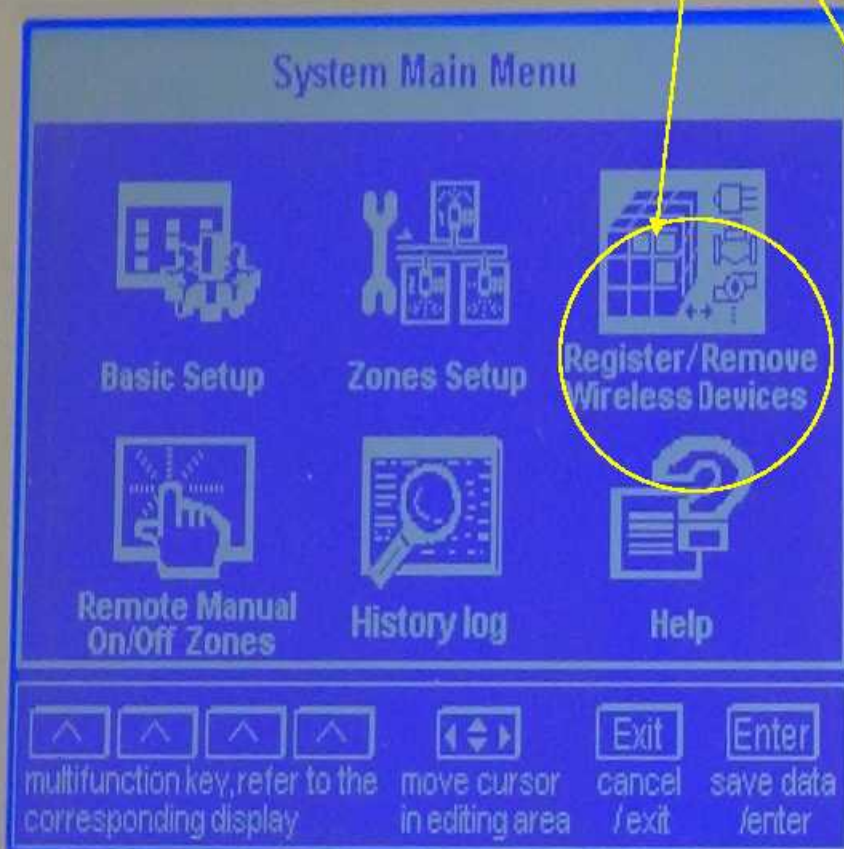
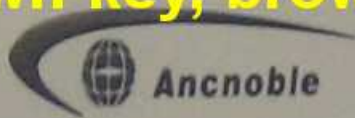
Data + 1 Data - 1 Browse menu ↑ Browse menu ↓

1	2	3
4	5	6
7	8	9
Exit	0 Menu	Enter

2. Push "Exit" twice back to Main Menu

- Put main controller and field controller both at registration status to register, and establish bidirectional wireless communication between main controller and field controller.
- We first show how to put main controller into registration status, then field controller.

Push up/down key, browse into "Register/Remove wireless devices"



key in zone # and moisture sensor position # in this zone. For example, we here register this sensor into zone 3, as #1 moisture sensor

REG/REMOVE WITHOUT SERIAL [1-9]

Enter zone number [03] and sensor series number [1] of 4

Push [Register] or [Remove] to select the operation.

This device is: <Unregistered>

Reg/remove soil moisture sensor
Reg/remove zone's valve
Reg/remove PH/EC sensor
Reg/remove pressure meter

Remove	Register	Browse menu	Browse menu
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Push function key "Register" into registration

Main controller is searching field controller....

REGISTER OR REMOVE WIRELESS DEVICE [1/8]

Searching for device
[EXIT]---to end searching

This device is:<Unregistered>

Reg/remove
soil moisture
sensor

4
Reg/remove
zone's valve

Reg/remove
PH/EC sensor

Reg/remove
pressure
meter

Remove

Register

Browse menu ▲

Browse menu ▼



Now, put main controller aside

REGISTER OR REMOVE WIRELESS DEVICE [1/8]

Searching for device
[EXIT]---to end searching

This device is:<Unregistered>

Reg/remove
soil moisture
sensor

4
Reg/remove
zone's valve

Reg/remove
PH/EC sensor

Reg/remove
pressure
meter

Remove

Register

Browse menu ▲

Browse menu ▼



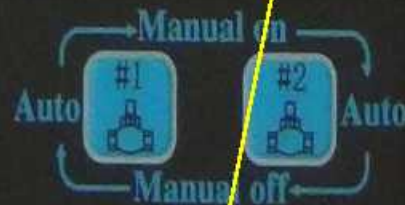
1. Mark the field controller

Zone 3#
Sensor 1#
Valve 1#

2. Plan to register this moisture sensor to zone 3, as #1 moisture sensor, make label as so.

3. Push menu key into setup menu.

Set dry control



Set wet control

Exit
Delete



Enter
Save

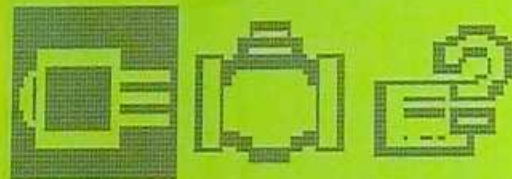
Break
Menu

Menu page

Zone 3#

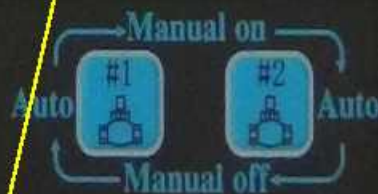
Sensor 1#

Valve 1#



Set up Sensor

Push "Enter" key into sensor setup



On Set up sensor page

Zone 3#
Sensor 1#
Valve 1#

Set up Sensor
Register/Remove
Adjust Control Level

Push "Enter" key into Register/Remove



Set dry control



Auto

#1

Manual on



Set wet control

Exit
Delete



Enter
Save

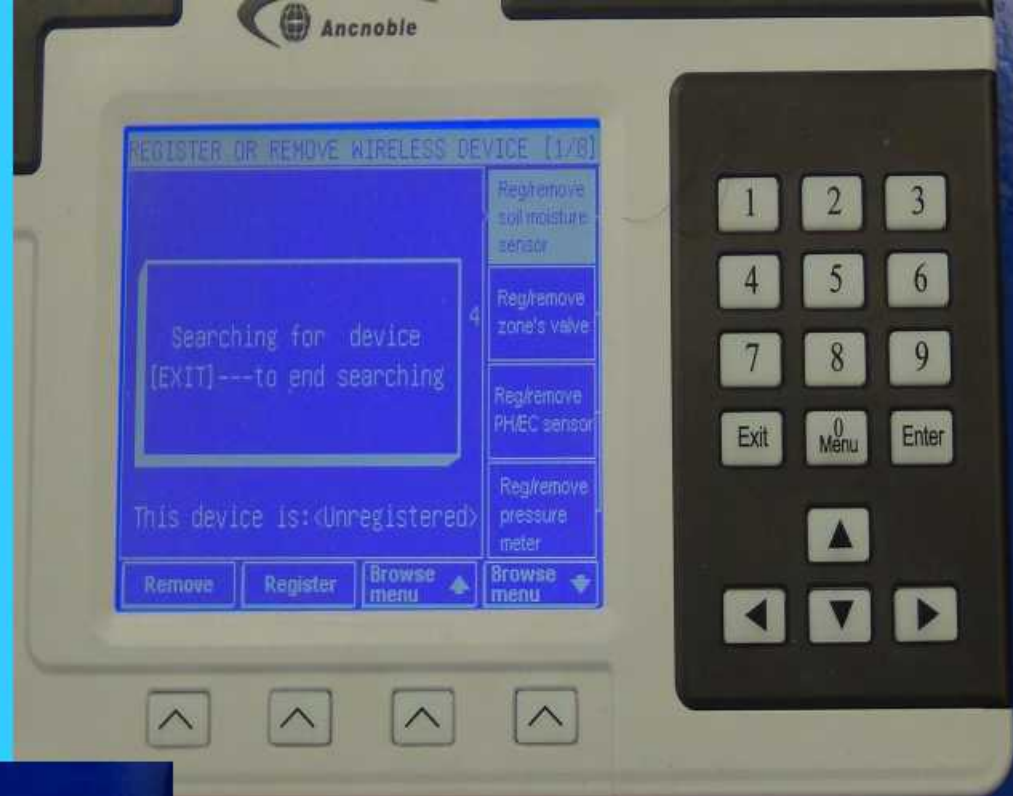
Manual off

#2

Auto

Inverse
Menu

1. Main controller which is searching field controller...



2. Push "Enter" into registration. two beeps means registration succeeded

Zone 3#

Sensor 1#

Valve 1#

Register/Remove Sensor

System ID= 71

#1 Sensor of # 03Zone

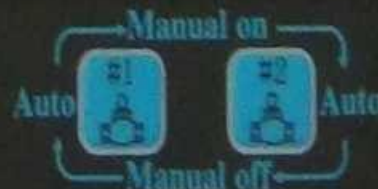
Register

Remove

After successful registration, field controller LCD will show as this



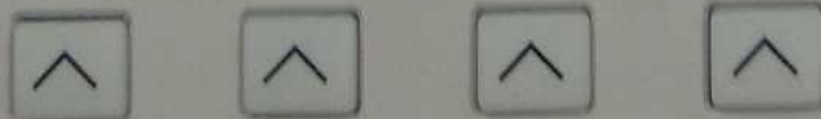
Set dry
control



Set wet
control



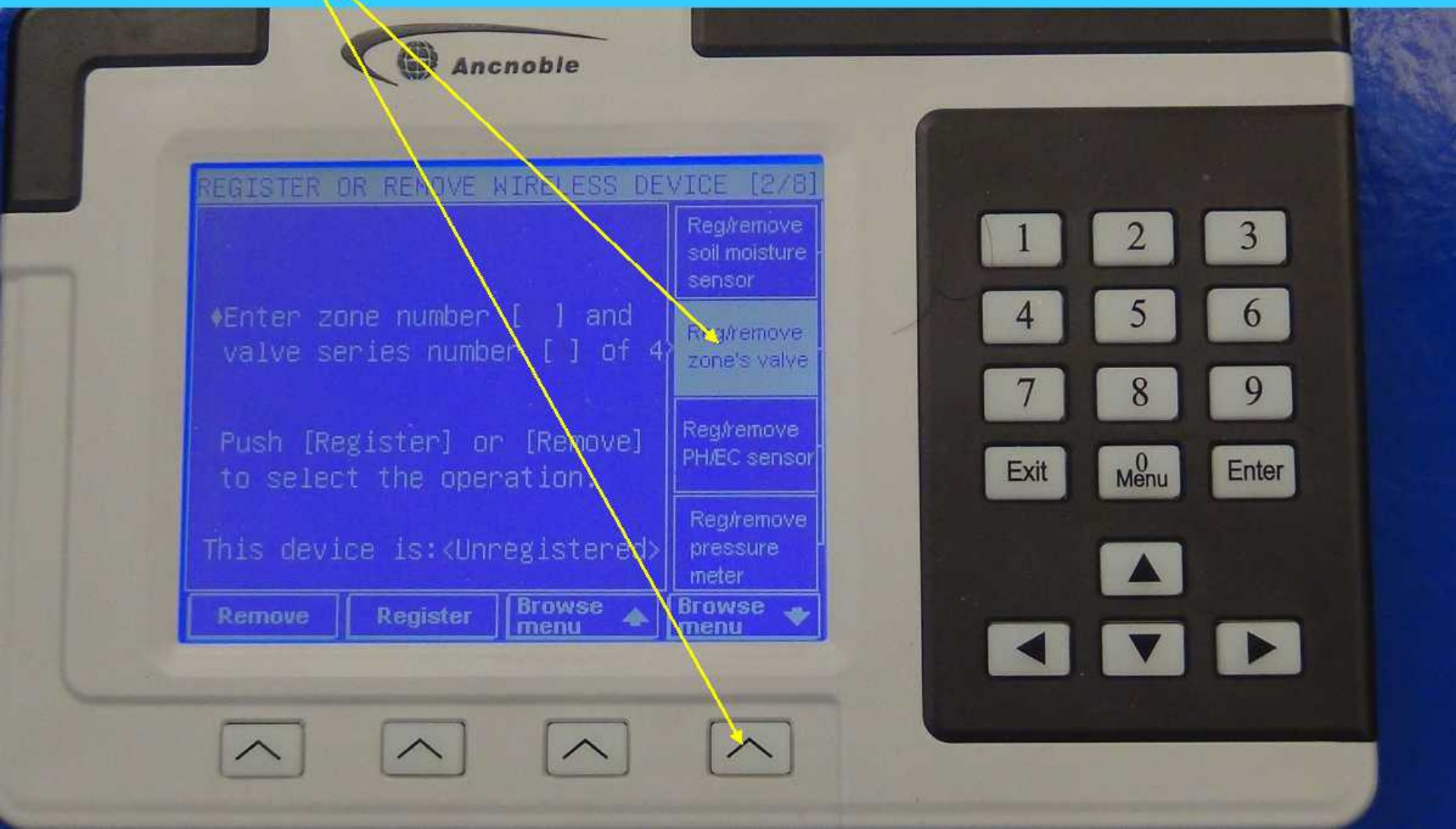
After successful registration, main controller LCD will show as this



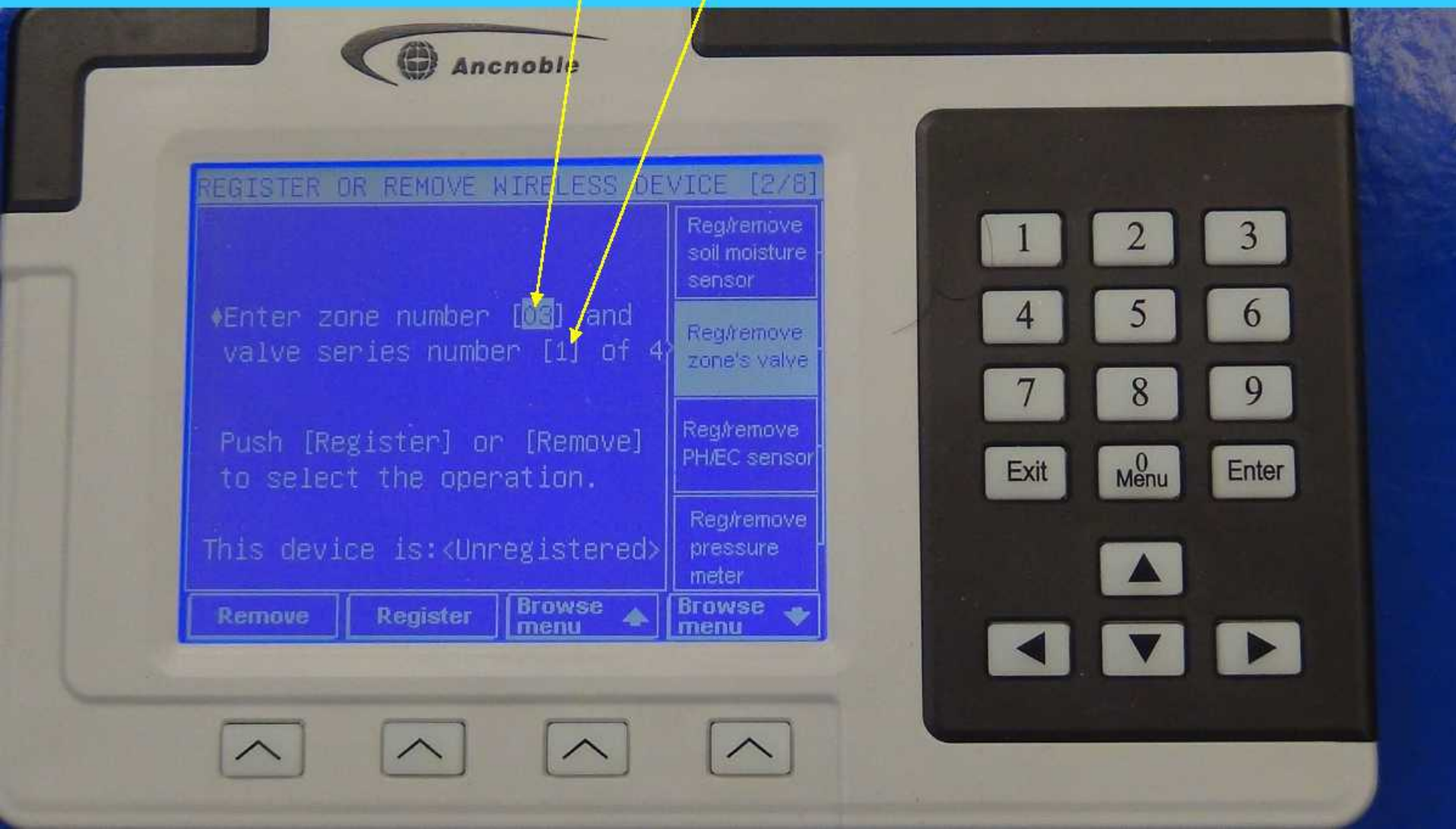
Next step let us register valve
The steps as same as register sensor

1. On main controller.

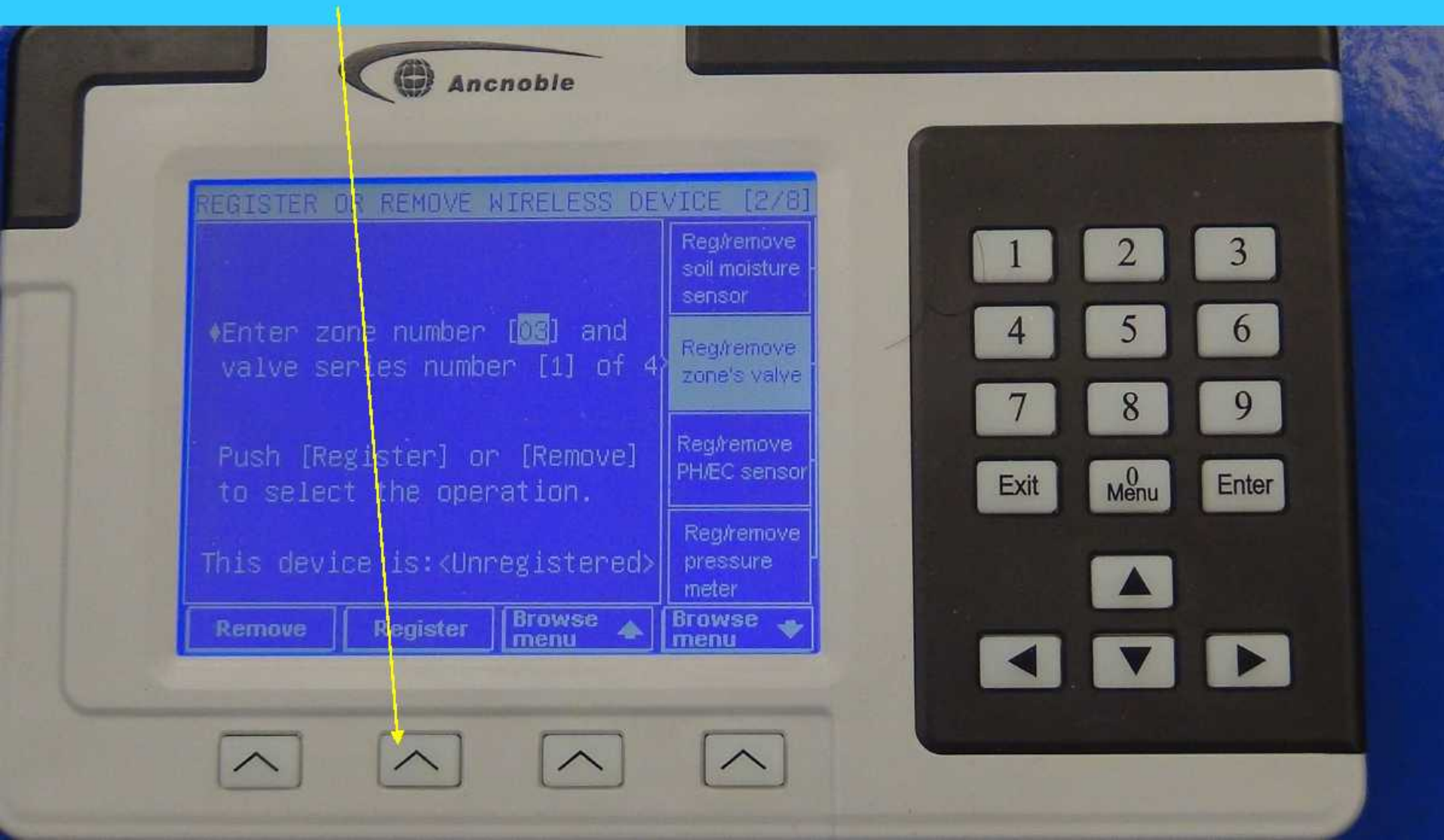
2. Push function key browse into "Register/Remove" menu.



3.Key in zone number as 3, and #1 valve according to label on the field controller (Same for register other #2, #3, and #4 valves. Total can register up to 4 valves for each zone.)



4.Push "Register", to let main controller into searching field controller for registration.



REGISTER OR REMOVE WIRELESS DEVICE [1/8]

Searching for device [EXIT]---to end searching	4	Reg/remove soil moisture sensor
		Reg/remove zone's valve
		Reg/remove PH/EC sensor
		Reg/remove pressure meter

This device is: <Unregistered>

Remove Register Browse menu Browse menu

1	2	3
4	5	6
7	8	9
Exit	0 Menu	Enter
▲		
◀	▼	▶

Waiting for registration, put aside

On field controller

Zone 3#

Sensor 1#

Valve 1#

Register/Remove Sensor

System ID= 71

#1 Sensor of # 03Zone

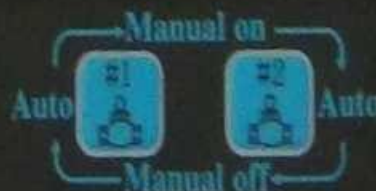
Register

Remove

Push "Exit" key two times back to main menu



Set dry
control



Set wet
control



Exit
Delete



Enter
Save



Browse
Menu

Browse into "Set up Valve" menu

Panel 3 #

Sensor 1 #

Valve 1 #



Set up Valve

Push "Enter" into this setup





Zone 3#

Sensor 1#

Valve 1#

Set up Valve
Register/Remove
En/Disable Pr sw
Pr sw check alarm delay

Push "Enter" into register/remove valve.





Zone 3#

Sensor 1#

Valve 1#

Register/Remove Valve

Unregistered

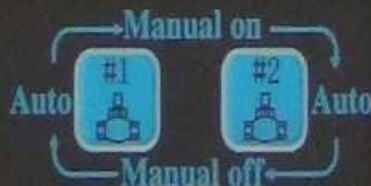
Register

Remove

Push "Enter" into registration



Set dry
control



Set wet
control



1. Field controller is searching
main controller.

Zone 3#

Sensor 1#

Valve 1#

Register/Remove Valve

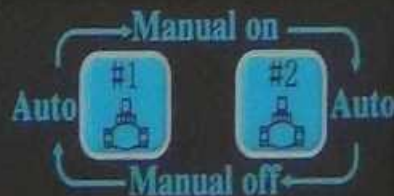
Registering

Register

Remove



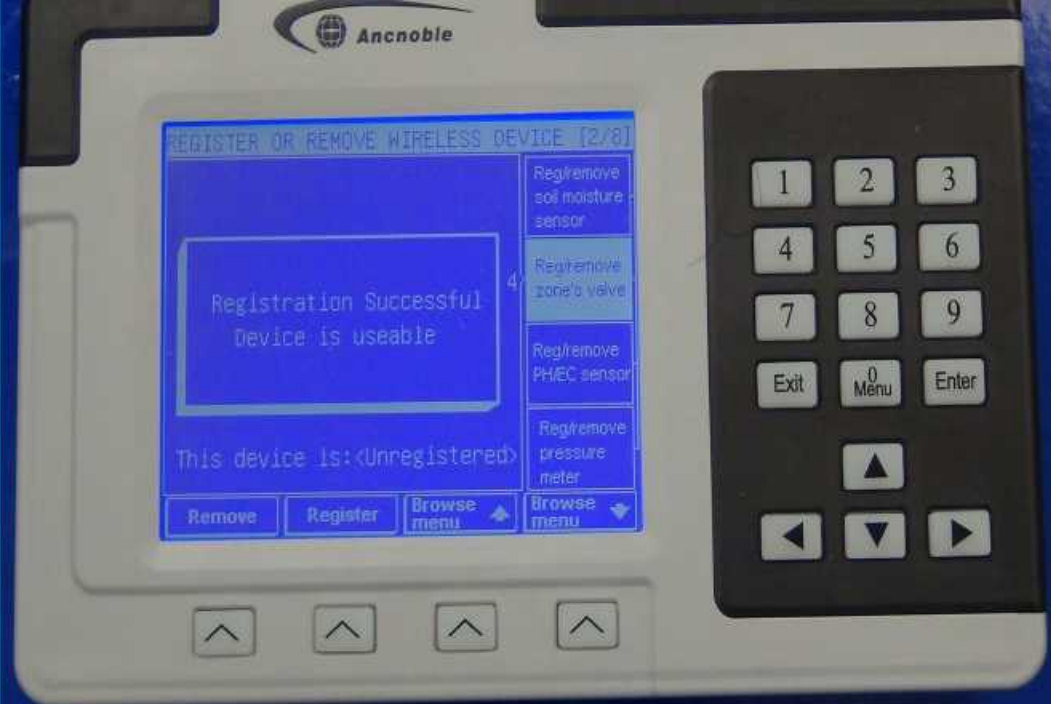
Set dry
control



Set wet
control



Two beeps mean done
registration successful



1.Done with registration. This field controller registered as #1 moisture sensor and #1 valve in zone 3.

2.Let us see the signal icon of wireless communication for both sensor and valve

1. Back to main menu, key in "03" to choose zone 3

GG-002 WiFi 01-25 Mon. 10:20

Zone# [03]

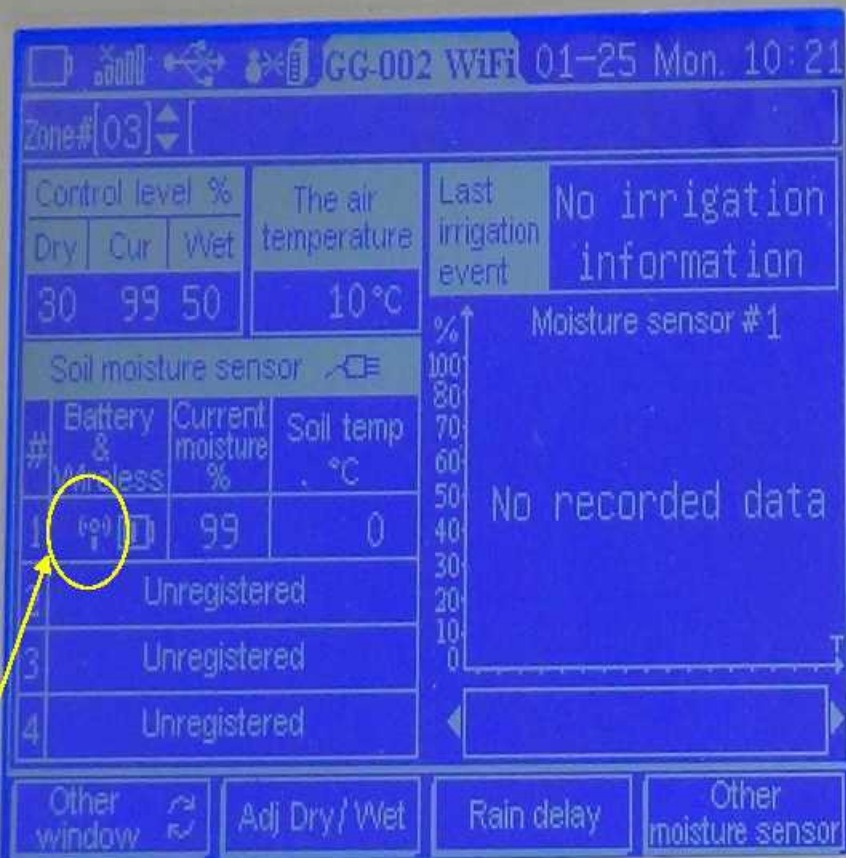
Control mode	Soil moisture control	Current status	Idle
Soil PH/EC	Unregistered		
Irrigation		Fertilization	
#X	Unregistered	pump	#X Unregistered
#X	Unregistered	Master valve	#X Unregistered
Valve #1	Auto off	Valve #2	Un-registered
Valve #3	Un-registered	Valve #4	Un-registered

Alarm info: Current no failure

Other window Scan all devices now Remote on/off zone Enable/disable alarm buzzer

#1 valve communication signal

2. Push function key browse to see #1 moisture sensor communication status



#1 moisture sensor communication icon.



You can register only sensor of one field controller, and only valve from another field controller for the same zone. Then this set of moisture sensor and valve can let you put the moisture sensor and valve at some wireless distance.

Sub Controller 2.

Sensor 1#

Register/Remove Sensor

System ID= 71

#1 Sensor of # 03Zone

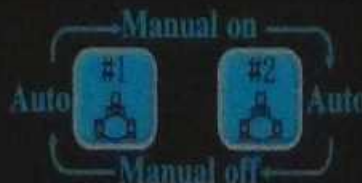
Register

Remove

1. Register only moisture sensor of one field controller to the main controller.



Set dry
control



Set wet
control



Sub Controller 1.

Value 1#

Register/Remove Valve

System ID= 71

#1 Valve of # 03Zone

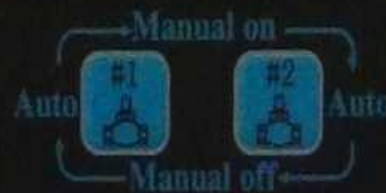
Register

Remove

**2. Register only valve of
another field controller
into main controller.**



Set dry
control



Set wet
control





Register only valve of one field controller and only moisture sensor of another field controller into same zone, so both moisture sensor and valve from different field controller will work for the same zone, which will be applied for the situation of valve is far away from soil land.

Remark:

1. Needs to register all the devices one by one. For example, if you using flow meter and pump both, needs to register flow meter and pump one by one. No matter if they controlled by one controller or by several controllers.
2. If using two pumps, needs to register as #1 and #2 pumps.

The end

Thanks