

**COMPATIBLE WITH OUR  
RANGE OF PRODUCTS**

For Smart Irrigation.

**ADVANCED  
CONTROLLER**

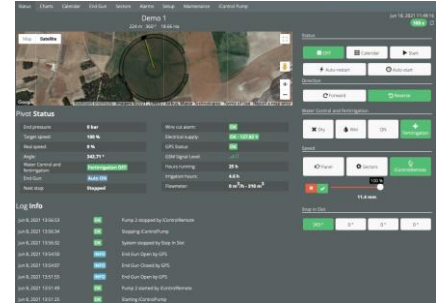
Multiple functionalities. Total control of your pivot in your hand..

**COMMUNICATIONS**

GPRS, LTE-catM1, NB-IoT  
Global SIM card included

868MHz / 900 MHz private radio network. Requires iControl Gateway.

# ICONTROL REMOTE 2



**iControl Remote** is an easy-to-install remote control system for pivot/linear irrigation management.

With iControl Remote you can remotely manage your pivots from any computer, tablet or cell phone using a web browser.

The system is installed inside a box in the pivot's last tower and includes a GPS receiver and a SIM card to ensure communication between the system and the remote management application.

The incorporated pressure sensor continuously measures the water pressure at the end of the pivot and, this information, together with IProx Irrigation, is used to optimize the pumping pressure and reduce the energy cost.

## Specifications & Models

iControl Remote 2	CELLULAR 2G & 4G (ICR2-CELLSAR, ICR2-CELLBAR)	WIRELESS 868 (ICR2-W868SAR, ICR2-W868BAR)	WIRELESS 900 (ICR2-W900SAR, ICR2-W900BAR)
<b>Main features</b>	Enhanced GPS, Galileo, GLONASS and BeiDou receiver, 2.5m position accuracy 8x relay outputs (including WATER CONTROL and second end gun or fertigation) 4x 110Vac inputs. Vac supply voltage meter. Enhanced wire cut detection and alarm Integrated solar battery charger for remote generator start-up and off-season alarms (requires optional solar kit) Enhanced pivot automation and remote-control software with faster response speed Colour coded wiring ready for end tower box connection, both BASIC [-BAR model] and STANDARD [-SAR model] AUTOREVERSE versions available. Level 3 ticket/email/phone technical support during installation and commissioning to AIC support engineers (English and Spanish, Monday to Friday) INCLUDES WATER PRESSURE SENSOR KIT: 0..10 bar, 5m cable, M12 connector, 3/4" male to 1/4" female reduction with polyethylene electric insulation.		
<b>Cloud Communications</b>	GPRS, LTE-catM1, NB-IoT Global SIM card included	868MHz private radio network. Requires iControl Gateway	900MHz private radio network. Requires iControl Gateway
<b>Regions</b>	WW	Europe	USA, Canada, Australia, New Zealand
<b>Water pressure sensor kit</b>	✓	✓	✓
<b>Ambient temp. sensor</b>	Optional		
<b>Remote pump control</b>	wired or wireless (requires iControl Pump)		
<b>Cloud Pressure Optimization enabled</b>	✓	✓	✓
<b>Dimensions</b>	200 x 120 x 77 mm		



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# ICONTROL REMOTE 2 Main features



Detects on/off status of pivot at all times and displays the information in the web APP

Allows remote manual start/stop of the pivot from the web APP

Start/stop by calendar: automatically start/stop the pivot according to the calendar configured by the user in the web APP

Pressure start-up: the pivot is turned on when the water pressure exceeds the minimum configured pressure, including a pressure waiting time which is also configurable.

Start-up by electrical supply: the pivot turns on when it receives power supply with a configurable time.

Start-up by pressure set point: the pivot turns on when it reaches the configured pressure set point, with a configurable pressure waiting time.

Detects the direction (forward/ reverse) in which the pivot is moving and displays it on the web APP

Allows the direction of the pivot to be changed between Forward/Reverse from the web APP  
\* only compatible with panels that have auto-reverse

Allows the selection of the pivot's speed control mode between:

- ✓ "panel": moves at the speed selected on the panel in the center of the pivot
- ✓ "iControl Remote": moves at the speed selected on the web APP
- ✓ "by sectors": different irrigation sectors and speed for each sector in each movement direction are configurable from the web APP

Control of the "End Gun" can be selected between:

- ✓ "panel": opens and closes according to the configuration set on the pivot's panel
- ✓ "auto": opens/closes according to the configuration for each of the defined sectors
- ✓ "ON": active

Control of a second gun or fertigation pump can be selected between:

- ✓ "panel": open and closes according to the configuration set on the pivot's panel
- ✓ "auto": opens/closes according to the configuration for each of the defined sectors
- ✓ "ON": active

Stops at virtual barriers configured as auto-stop: for the pivot at an AR/AS angle configured in Auto Stop mode and performs over-irrigation according to the waiting time which is also configurable.

Changes of direction in virtual barriers configured as auto-reverse: changes the direction of the pivot by an AR/AS angle configured in Auto Reverse mode and performs over-irrigation according to the waiting time which is also configurable.

Stops at physical barriers configured as auto-stop: detects pivot stops caused by a physical barrier, visualizes the stop, performs over-irrigation according to the waiting time which is also configurable and, finally, changes the direction of the pivot.

Change of direction of the physical barriers configured as auto-reverse: detects changes of direction and performs over-irrigation according to the waiting time which is also configurable.

Stop in Slot: for the pivot in those angles configured as Stop In Slot.

Selective water application by sectors and movement directions: definition of which sectors and Forward/Reverse movement directions are irrigated (and at which speed) and which are not.

Continuously verifies the integrity of the pivot hose and, in case of a malfunction, generates an alert for cable interruption.

\* Requires the pivot to be turned on or optional solar kit

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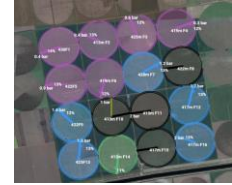
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# ICONTROL REMOTE 2

## Main features



Automatic start/stop of generator/pumping station/valve according to the irrigation programmed by calendar  
\*requires a control cable between the pivot and the generator/pumping station/valve or Iprox Compact device in the pumping station/valve

Manual start/stop of the generator/pumping station from the web APP. This allows remote management of the water supply to other irrigation sectors when the pivot is not working  
\*requires a control cable between the pivot and the generator/pumping

Continuous measurement of the water pressure at the end of the pivot

Continuous measurement of real speed and the position angle

Meters measuring the operation hours and volume of water applied

Partial meters by sectors

Records and displays a list of the manoeuvres performed both manually and automatically

Records and displays the user that has performed each manual action

Automatic calculation of the nominal dose depending on the flow and speed of the last tower

Charts with more than 20 variables related to the operations of the pivot, allowing the comparison between several pivots

Sending of alerts by SMS/email configurable by priority

Various access levels and authorizations in order to visualize and/or operate the pivots according to the user

Global SIM card (compatible with all telephone operators) included in the controller

Remote update of the controller's firmware

Simplified general view of all the pivots in one exploitation ("field view")

Graphically represents on a map the status and position of each pivot, physical and virtual barriers, end-gun activation areas, active alarms, etc.

In the case of a GPS reception error:

- ✓ Sends an alert
- ✓ Deactivates the Stop in Slots and AR/AS by angle
- ✓ Passes the speed control and End-Gun control to the panel

If there is an error in the GSM communications:

- ✓ If the pivot is operating, the web APP sends an alert
- ✓ The pivot continues operating (or not) as expected in the first 24 hours
- ✓ After 24 hours without GSM coverage manual mode (panel) is activated

Next stop: estimates the time remaining for the current irrigation

Monitors the voltage of the AC power supply to the pivot and sends an alert in case of failure

Monitors the battery voltage in equipment with a solar kit and send an alert in case of failure

Storage and download of the pivot's irrigation chart in .pdf format

Reports of total irrigation and by sector irrigation of the irrigated area, water applied, and volume. Number of hours running on each direction reporting. Reporting of flow, speed, pressure, water applied, etc. averages.

Assistant for center of the pivot coordinates configuration using the GPS position of the smartphone

Automatic adjustment of seasonal time change (winter/summer)

Optional ambient temperature sensor. Configurable pivot stop when temperature fall below set-point.