



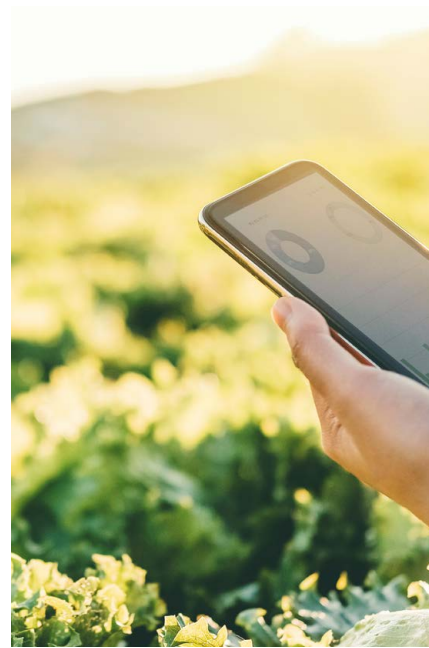
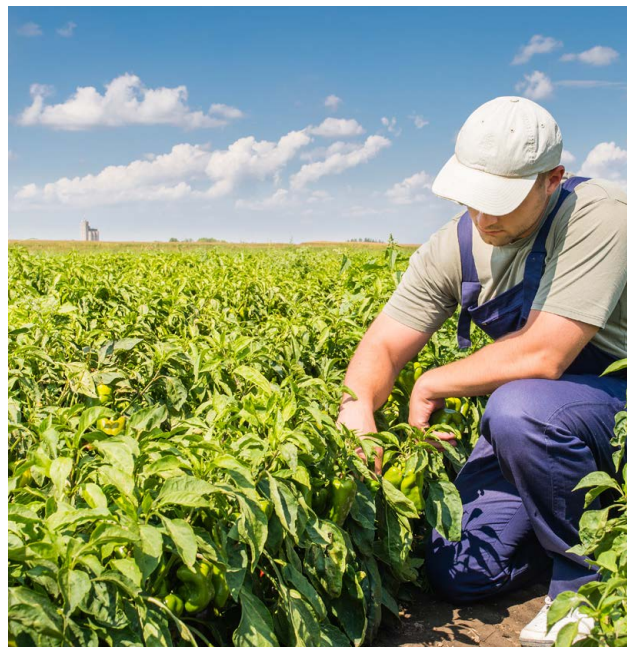
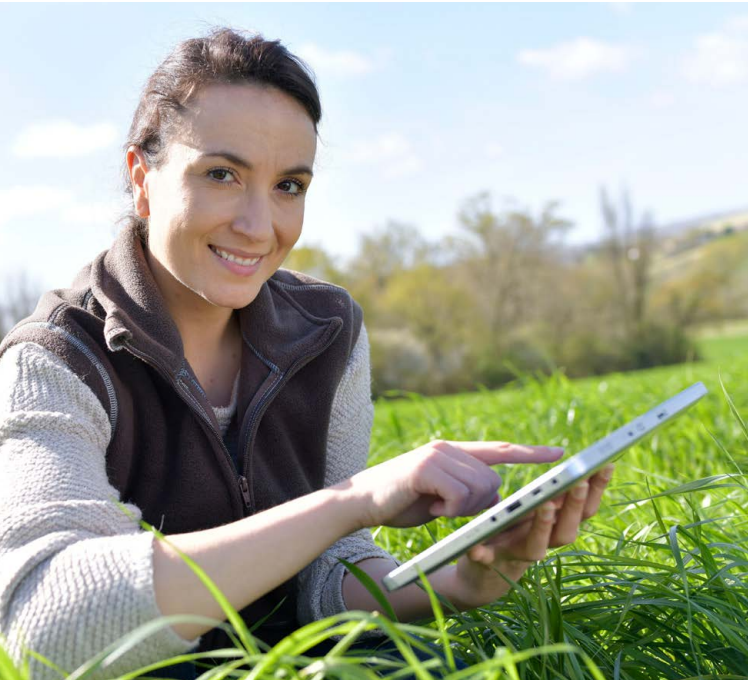
Rodney Industries

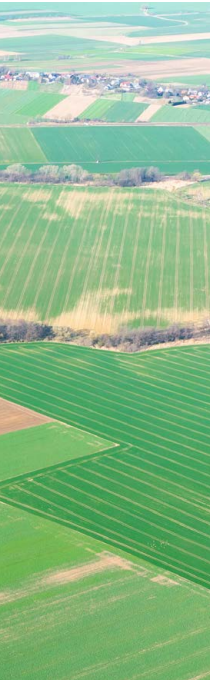
DIGITAL IRRIGATION

Digital solutions for keeping your
field in the palm of your hand

2024

DIGITAL IRRIGATION





WELCOME TO THE FUTURE OF IRRIGATION



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Unit for Control and protection for
Irrigation Motor Pumpsets





GPS Fleet Management for your Irrigation Equipment

Using the raindancer GPS system, you are able to monitor and control the irrigation from your PC or smartphone. You get real time information at a glance.

If necessary, take control using your smartphone or PC.

Using raindancer is very easy and it is available for every irrigation machine, new and old.

Enjoy your new freedom with improved time Management. raindancer is easy to use and to set up.



What are the benefits of a raindancer® system?



OVERVIEW

At any time, display the maps or the list of machines on your smartphone or pc. Machine location, water application, current water pressure and finish time.



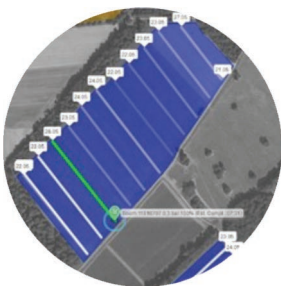
CONTROL

Irrigation machines can be started and stopped from anywhere. If it starts to rain or it is too hot at noon - just stop from your smartphone. The speed can be adjusted automatically according to stored soil conditions.



NOTIFICATION

If the machine does not move or the pressure is too low, too high, a text message is sent. Also, upon entering critical zones - e.g. roads or railway lines on impact edge you will be notified via SMS.



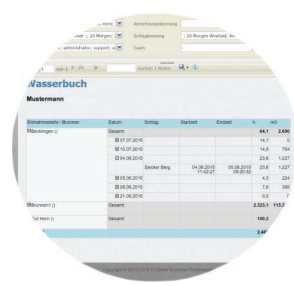
SCHEDULING

Irrigation runs are shown with detailed information and colour coordinated - planning your next irrigation movements.



PUMPS

Start and stop pumps via smartphone. In irrigation pipelines, Raindancer automatically switches the pumps on and off. If you have a frequency controlled pump, Raindancer can adjust the parameters dynamically.



REPORTS

All data about your irrigation is saved in a database automatically. It is permanently available - reports produced showing water application by hose reel, field or crop. Data may be exported to MS Excel and processed there.

At a glance

Identify malfunctions early

Respond quickly when it is needed. raindancer[®] warns you by text message when it comes to malfunctions.

All the details of the irrigation

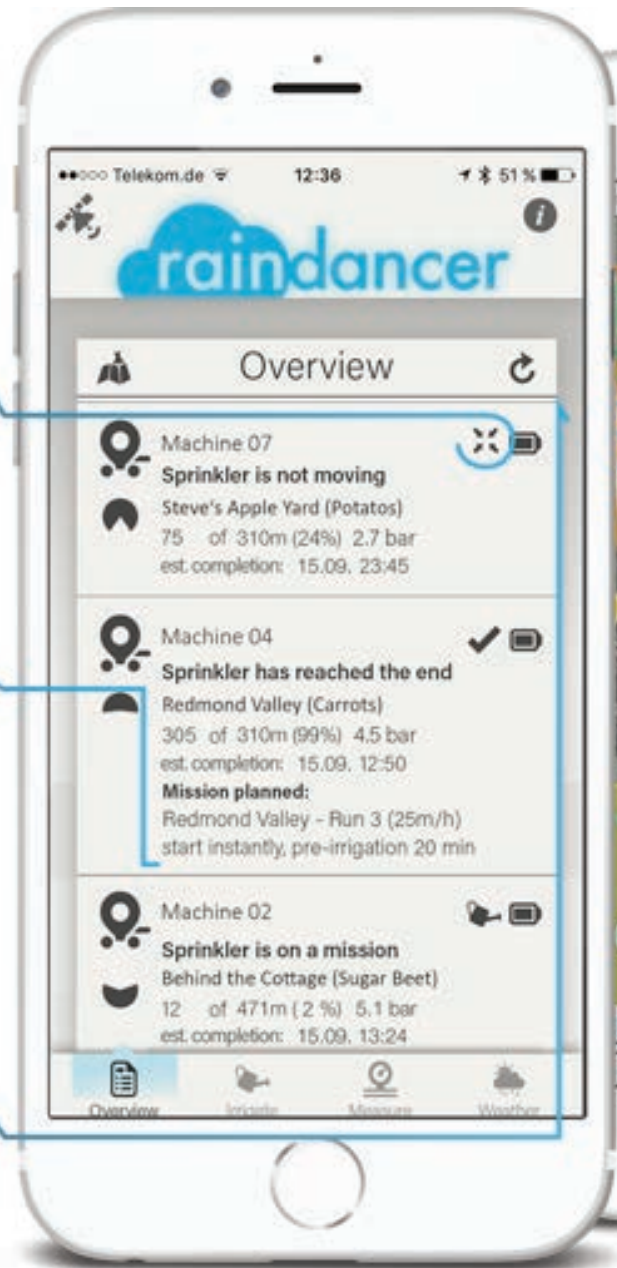
Current location, pressure, and the estimated end time at a glance.

Plan the movement right in the app.

Information at a glance

An intelligent sorting makes it easier to keep you informed.

First, see the machines where there is need for action.





Planning the next steps

See which irrigation cycles are already done and which are still pending.

Overview on the map

At a glance, see the progress of the irrigation.

Know tomorrow what is applicable yesterday

Look at all the details of your recent activity.

Detailed information about times and quantity of water allow a substantiated planning of irrigation.





the **best way** to connect **your** irrigation systems

DIGITAL IRRIGATION 4.0 system grants a completely integrated management in which the user is able to analyze, manage with a single interface. The portal is "hosted" on the Cloud.

Field devices exchange data with a webserver continuously.

An artificial intelligence analyzes the data and provides the user with all the information they need to manage their irrigation.

The humidity sensors inform about the state of the soil and combined with weather forecasts, indicate, where, when and how to irrigate.



THE MARANI DIGITAL IRRIGATION SYSTEM ANALYSES AND CONVEYS YOUR IRRIGATION SCENARIO TO THE MOBILE DEVICE OF YOUR CHOICE.

Location of the machines, lines to be travelled during the work phases and a volume of processed information that suggests how much water to distribute and where. As the weather and ground moisture conditions change, the software reworks the parameters and provides the new situation. Your intervention is as timely as using your fingers to press a button on the touch display.

INCOMING DATA, OUTGOING INFORMATION

The system has sensors that detect the status of the terrain and the weather situation. The data is transmitted to a cloud server that processes it, transforming it into precise irrigation recommendations, and sends it to the operator's device (smartphone, tablet or PC workstation).

CONTROL OF IRRIGATORS IN THE FIELD

The machines follow the trajectories drawn up by the operator in advance. As the data flows in, and the irrigation scenario changes, it is possible to intervene on aspects such as water pressure or re-entry speed. The system provides a detailed report that can be consulted in real-time.



The Marani digital irrigation system analyses and conveys your irrigation scenario to the mobile device of your choice.



MA RAIN 26

The MA-Rain 26 computer features the following programmable functions:

- Working speed in mt\h or ft\h.
- Delayed start (in minutes) before retraction starts.
- Delayed stop (in minutes) before opening or closing the discharge valve (optional) or the shut-off valve.

The monitor then indicates:

- Remaining working time in hours and minutes.
- Working speed in mt\h or ft\h.
- Meters\feet of unwound hose.

MA RAIN COMPUTERS



MA RAIN 56

The MA-Rain 56 computer features the following:

- Compact case.
- 4" high contrast, colour display.
- Optical encoder, for a fast selection of settings.
- 2 x 4 keys for navigation with back lighting.
- Additional keys for alarm setting.
- I/O control module.
- On/Off key.
- Commands and features have an intuitive graphical user interface, to avoid keys in the lingo.
- Detailed alarm chart, with explicit reference to the components.
- Fast and easy parameters'/datas' settings.
- Software's update with USB key.
- Meters\feet of unwound hose.

Made by **MARANI**



**Unit for Control and
protection for
Irrigation Motor Pumpsets**

250



The most widely used control unit in the sector. Extremely reliable, With just the starting of the motor pump, the CEM-250/10 automatically monitors all its parameters and alarms, with no operator adjustment. It is supplied with the electric probe for the pump. Suitable for mounting directly on the motor pump.

On the panel the functions are:

- Hour-meter
- Oil pressure gauge
- Water or oil thermometer
- Tachometer
- Pump water pressure gauge
- Timer
- Fuel level gauge
- Pump protection exclusion
- Battery and oil lights
- Protections intervention
- Emergency stop



380

Recent control unit made with functions similar to the CEM-250/10, but simplified.

With just the starting of the motor pump, the CEM-380 automatically monitors all its parameters and alarms, with no operator adjustment. It is supplied with the electronic probe for the pump. Suitable for mounting directly on the motor pump.

Key features include:

- Digital instruments (hour-meter, timer, pump water pressure gauge, fuel level indicator, tachometer, battery voltmeter).
- Motor pump failure automatic monitoring (low oil pressure, over temperature, belt breakage, minimum fuel level, available A1, A2 (low diesel fuel pressure), low coolant level, insufficient pump water pressure, pump water overpressure).
- Manual starting with key.
- Battery and oil lights.
- Pump protection exclusion.
- Accompanied by an electronic transmitter of water pressure.

ELCOS CIM 131

If connected to the actuator, installed on the accelerator of the diesel engine, these carry out automatic regulation to keep the irrigation pressure constant.

They are supplied with the electronic probe for the pump.

Key Features include:

- Digital instruments (hour-meter, oil pressure gauge, water or oil thermometer, timer, pump water pressure gauge, fuel level indicator, tachometer, battery voltmeter).
- Adjust engine speed through the actuator (on request) maintaining constant the pressure of the irrigation system.
- Controls the flow of water in the pipe.
- Motor pump failure automatic monitoring (low oil pressure, overtemperature, belt breakage, minimum fuel level, available A1, low diesel fuel pressure, low coolant level, insufficient pump water pressure, pump water overpressure).
- Remote control (start and stop).
- Clock for programming the start and stop of the machine.
- Battery and oil lights.
- Pump protection exclusion.

Control units that as well as manual operator control also allow its automatic control by external contact. With just the starting of the motor pump, the CIM-131 automatically monitors all its parameters and alarms, with no operator adjustment.





ELCOS CIM 137

The CIM-137/4GW has in addition the integrated modem-GSM 4G that allows remote control by app, browser or SMS.

Control units that as well as manual operator control also allow its automatic control by external contact.

With just the starting of the motor pump, the CIM-137/4G automatically monitors all its parameters and alarms, with no operator adjustment. If connected to the actuator, installed on the accelerator of the diesel engine, these carry out automatic regulation to keep the irrigation pressure constant. They are supplied with the electronic probe for the pump. Suitable for mounting directly on the motor pump, both flush mounted and with their possible independent bracket.



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