

# CONTROL PANELS



## FOR AGRICO CENTRE PIVOTS

The Agrico RAIN (Reliable Automatic Irrigation) series of centre pivot and linear irrigation control panels covers the full spectrum of customer needs.

### AVAILABLE IN TWO MODELS

#### 1 BASIC RAIN

The Basic RAIN control panel is a fully electro-mechanical panel which indicates whether power is present, whether or not the machine is aligned, whether it is running or not, and whether the last tower is running or not.

It allows the user to manually start and stop the machine, set its direction, speed, and its mode:

- **Dry:** The machine will run if it has power, is set to run, and is aligned. It will not start the pump.
- **Wet:** The machine will run if it has power, is set to run, is aligned and has pressure. It will actuate the pump run/open valve signal as long as it is running. It will stop running if pressure falls away, and will not keep starting the pump/opening the valve.
- **Wet, start pump:** The machine will run if it has power, is set to run, is aligned and has pressure. It will actuate the pump run/open valve signal as long as it has power, is set to run, and is aligned. It will stop running if pressure falls away, and will keep starting the pump/opening the valve.

#### 2 ADVANCED RAIN

The Advanced RAIN control panel is a fully programmable electronic control panel. It senses the position of the pivot accurately to within 1°, and allows the user to pre-program events that occur when a certain position or time is reached.

For example, it is possible to set the machine to start the pump every Wednesday morning at 04:00, start running when the pressure at the centre reaches a threshold, change speed at a position of 50° so that 20 mm of water is applied, and stop running at a position of 180°.



**AGRICO**  
Meer as 100 jaar van diens



### TRIGGERS

Programmable conditions & action tables allow flexible yet robust programming.



### SECTORS

Actions can be set-up based on position zones.



### EVENTS & CHARTS

Detailed event log of user inputs, state- & sensor changes with graphed metrics.



### TRIGGERS

Calibration and irrigation settings. SMS & missed-call notification profiles.

## ADVANCED RAIN FUNCTIONALITY

### Controls are manufactured using only the highest quality of parts and materials:

- Lockable stainless steel enclosure with padlock;
- High quality, branded electrical switchgear with standard 230 V control voltage (thus available throughout southern Africa);
- High quality, branded 45 kA per phase surge protection;
- No fuses – only circuit breakers are used. The main circuit breaker is a three phase thermal magnetic motor circuit breaker that will trip on both a short circuit and a sustained overload condition;
- Electro-mechanical percentage timer (except Advanced RAIN);
- 100 000 hour rated LED status indicator lamps (except Advanced RAIN).



### ALL MODELS FEATURE:

- Instant stop should misalignment occur, or should the emergency stop be activated – no 5 to 10 second delay;
- Run/Stop according to pressure at centre;
- Pump start/stop or valve open/close control from main panel (requires cable from valve or pump to main panel);
- Automatic restart after power failure – no need to drive out and restart machine.

