



# RAINMAN *Cp*

## *Centre Pivot Controller*



*RAINMAN Cp has been integrated into the following brands:*

- TL Irrigation (USA)
- Southern Cross

*RAINMAN Cp controls and manages centre pivot irrigators. The Cp can function as a standalone controller or as part of a Centralised Control System (CCS).*

### **FEATURES:**

- Controls, monitors and records supply of water to crops.
- Compass for direction control and to indicate position of centre pivot.
- Supports NMEA compass, absolute encoder or BEI encoder
- Flow and volume reporting.
- Multi-level password protection.
- Alarm and shutdown conditions are used to protect and detect any malfunctions in the system.
- Irrigation Stop key will immediately stop the pivot.
- Default screen displays Pivot, Status and Operation.
- 10 independent Programs.
- End Gun and Auxillary Output Control.
- Capable of monitoring flow rate, water pressure, hydraulic pressure, pivot end speed and weather stations.

*Can be RETROFITTED to both  
ELECTRIC and HYDRAULIC CENTRE  
PIVOTS*



## SPECIFICATIONS For RAINMAN Cp

<b>Input Power</b>	24V AC / DC	<b>Output Power</b>	24 AC / DC - volt free 24VDC@3A
<b>Sensor Inputs</b>	<b>Analogue</b> - 4-20mA. Fully opto-isolated with 1600VDC isolation (4 inputs on basic unit)		
	<b>Digital</b> - open collector or ground reference to +5V isolated. Fully opto-isolated with 1600VDC isolation (8 inputs on basic unit)		
<b>Relay Outputs</b>	3A – max. contact setting time 10ms. Isolation @3000VAC b/t coil and contact. Current sensing on relay bank.		
<b>Output Supply</b>	Regulator 12VDC – 2A		
<b>Fuses</b>	On board fuse for Power Supply and Relay Output Voltage		
<b>Environmental</b>	Operating Temperature – 0 to 60°C Operating Humidity – 5% to 95% non-condensating		
<b>Communications</b>	RS232 x 3 (configurable) RS485 x 4 (configurable) Radio, GSM, Fibre Optic, PSTN		



## RAINMAN Cp Centralised Control System (CCS)

The RAINMAN Cp Centralised Control System (CCS) is a computer-based package used to control and administrate a number of RAINMAN Cp field controllers. While these controllers may act as stand-alone units, the CCS adds powerful fault finding facilities and enables the collection of data and alarms from each of these controllers to a centralised point.

<b>Features</b>	<ul style="list-style-type: none"><li>* End-user can customise CCS by inserting their own aerial photos and company logos to overview and controller mimic screens.</li><li>* End-user can define segments within the pivot that can be monitored for water volume and irrigation time.</li><li>* End-user can easily add or remove RAINMAN Cp controllers to the CCS</li><li>* CCS has Controller Event Log – this records different events at the controller such as program start / finish times and when the end gun is turned off / on.</li><li>* CCS can pause / shutdown centre pivot irrigator due to high / excessive wind speed recordings received from weatherstation.</li><li>* Pivot Program Animation – when selecting / customising a program an animation box of the pivots movement in degrees will be displayed on screen.</li></ul>
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Note - RAINMAN has a policy of continued development, specifications are subject to change.

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