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# PIVOT IRRIGATOR MONITOR AND CONTROLLER

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## PRODUCT OVERVIEW

A minimally invasive installation, this irrigator monitor installs into the switching box at the outermost set of wheels of a pivot irrigator, or by strapping to the outer span for solar equipped variants. It is the industry's most cost-effective remote monitoring and control solution for retrofit to existing irrigators. Viewable from your desktop computer or using your Apple or Android mobile device, the base system has the following capabilities:



- Status (stopped or operational) viewable any time in the mobile app with 10 minute status updates.
- Instantaneous text message alarms for when the irrigator has unintentionally stopped.
- GPS position of the outer tower, viewable on the map page.
- Remote stop function - Stop the irrigator with the press of a button on your mobile device, which briefly opens the safety circuit on the irrigator (not applicable to solar version).
- Drop pin stop function - Stop the irrigator anywhere around its travel path by dropping a virtual pin on the map in the desired location (not applicable to solar version).
- Timer function - Stop or start (if option selected) the irrigator based on 7 day, app configurable timers.

Paired with a LoRaWAN base station/gateway, the monitor is the ideal solution for providing immediate notification in the case of a power outage, failed drive shaft or stuck tower wheelset.

A separate remote start function (an additional receiver at the center of the pivot) can be added for an additional cost, or a pressure sensor for monitoring the outer tower water pressure levels. For Valley CAMS and ICON digital panels, the remote start option also allows you to select wet/dry and forward/reverse abilities from your mobile device. A breakdown of the Standard (S) and Optional (O) capabilities by irrigator type may be found in the following table, with more irrigators to be added once compatibility has been verified.

	Run Status	GPS Position	Text Message Alarms	Remote Stop	Drop Pin Stop	Charging Via Mains	Charging Via Solar	Pressure Monitoring	Remote Start	Remote Wet/Dry Switching	Remote Forward/Reverse Switching	7 Day Start/Stop Timer
Reinke RPM Basic/Standard/Advanced	S	S	S	S	S	S	0	0	0			0
Reinke Touch Screen	S	S	S	S	S	S	0	0	0			0
Rainfine	S	S	S	S	S	S	0	0	0			0
Valley CAMS Pro/2	S	S	S	S	S	S	0	0	0	0	0	0
Valley ICON	S	S	S	S	S	S	0	0	0	0	0	0
Ausrain	S	S	S	S	S	S	0	0	0			0
T-L Hydraulic	S	S	S	S	S	S	S	0	0			0
Bauer	S	S	S	S	S	0	S					

## HARDWARE SPECIFICATIONS

### Irrigator Monitor

- Optimized LoRaWAN Frequency: 915Mhz (Australia/USA/CANADA/New-Zealand)
- Range: Typically 5km from base station in slightly undulating terrain, however performance will vary with topography and vegetation.
- Product Weight: 315g
- Onboard Battery: Lithium-Ion 3.7V, 14500 form factor, 800MAh (min) rechargeable (Supplied) for the provision of backup transmitting power during power outages.
- Power Input: 2x120VAC Input (FWD/REV), 12VDC OR 5V Solar. 250VAC available upon request.

#### Input/Outputs

- 2x Switched Digital Output
- 1x Relay Output (SPDT) 3A Max.
- 2x Digital Input
- 1x Analogue Input 0-5V
- LoRa Antenna connection: SMA Female Bulkhead