

The Valve Control Unit, 4 Zone (VCU-4Z) is a wireless irrigation receiver. It is used in conjunction with a Gulf ICI or RICO transmitter to provide a complete wireless switching system for irrigation valve control. The VCU receives instructions from the transmitter and activates up to 4 D.C. latching solenoids.

The VCU-4Z is fully IP68 compliant i.e. the unit is completely sealed against ingress of water and dust, so can be placed inside a valve box without fear of damage due to flooding.

Main Features

- IP68 compliant - fully sealed against water and dust ingress.
- Control up to 4 D.C. latching solenoids.
- Highly sensitive micro-controlled receiver with built-in error correction.
- Solenoid switching time < 1 second from receipt of signal.
- Valve Test Mode – Valves can be operated from the VCU itself without the need to operate the transmitter.
- Auto Learn Mode – The VCU learns the unique ID of the transmitter without having to set any DIP switches.
- Range Test Feature – Each time the transmitter sends a Range Test command the VCU responds by flashing an LED indicator.
- No external programming/test equipment required.
- Pump/Utility Control – Control pumps and other utilities by connecting external latching relays to the VCU outputs in place of solenoids.
- Field-configurable as a Master Valve controller.
- Automatic shutoff period of 9 minutes to avoid over-watering in unlikely event of signal failure.
- Battery operating life > 1 year under typical usage conditions.⁽¹⁾
- LED indications for Battery Low, Valve Test Mode, Learn Mode, Valve Status and Range Test.



Solenoid Compatibility

- Switching Voltage 15V ± 0.5V D.C. pulse.
- Pulse Duration 22ms
- Maximum plunger displacement 3mm.
- Connector type: 8 Way Spring cage connector
- Maximum cable length to solenoid 20 meters using 1mm² wires.

Power Supply

- 3.6V D-type lithium battery (supplied).
- Battery operating life > 1 year under typical usage conditions.⁽¹⁾



- Battery shelf life 10 years.
- Peak current consumption: 250mA
- Average current consumption: 920 μ A/h

Environment

- Housing is IP68 rated.
- Operating Temperature -10 Celcius to $+70$ Celcius

Physical

- Dimensions of housing 133mm x 48mm x 65mm (not including antenna).
- Antenna Length 164 mm.
- Weight (including battery) 450g.

Notes:

1 : Typical usage conditions are where 4 DC latching solenoids are connected to the VCU and each valve is opened and closed twice per day.

2 : The Manufacturer reserves the right to change without prior notice any of the above-mentioned properties of the product.