

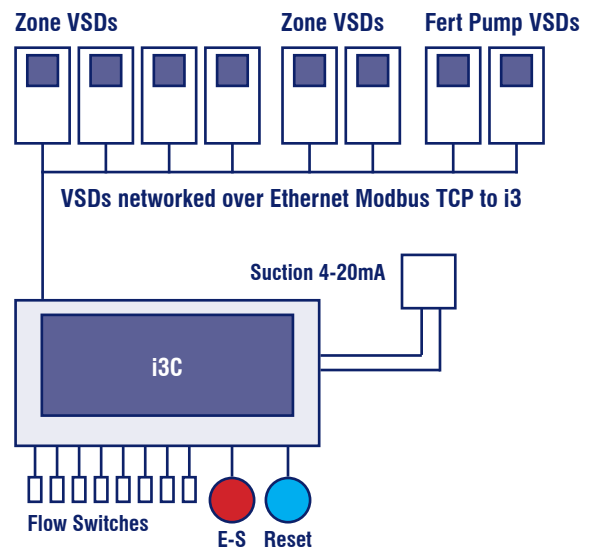
Case Study



i³ Intelligent Controller *Vineyard Irrigation Solution*



Application:	Multi-zone irrigation control and monitor
Equipment:	IMO i ³ C Intelligent Controller Ethernet, 8 x Variable Speed Drives, Flow & Pressure Sensors, Control Panel
Special Note:	Multiple VSD's networked over Modbus TCP
Requirement:	To give improved system control and monitoring capabilities
Location:	North Perth, Western Australia
Time since installation:	18 months



The customer required improved Vineyard irrigation system control and diagnostics from the standard conventional controller. After a customer consultation the i3C was deemed the most suitable and cost effective solution.

The i3C was mounted directly on to the control panel door in the irrigation control house, the i3 controlled and monitored 2 x irrigation zones plus the fertilization system.

Each irrigation zone has 4 and 2 VSD's respectively, the i3 displayed the run status, system pressure and flow also any active and historical VSD faults. Pressure set points can also be written to the master VSD in each zone as well as any timer, counter and flow variables.

The i3 also controlled the 2 Fertilization VSD's for fertilizer dosing, all VSD's were controlled using the inbuilt Ethernet port over Modbus TCP. The i3 ensures the set point system pressure is always maintained and all VSD information (current, frequency, voltage and health) can be viewed and logged.

“Commissioning of the vineyard irrigation solution was very easily achieved with the i3C from IMO, and day to day operation is now considerably easier”
Testimonial from Technical Director, Integrator

