

Model LV

The Vision Series of instrumentation brings a totally new concept to the water treatment and process control environment.

Vision series controllers utilise USB technology and incorporate extensive in-built programming options to provide maximum flexibility of application.

By selecting and combining a small number of key components, a huge range of control requirements can be satisfied.

This Model LV controller is a dual system process control instrument, designed to handle virtually all common cooling, boiler and process water treatment applications. Available in only one model, it is supplied in a standard format with popular features, many of which are automatically activated.

As standard, it is supplied with three IntelliSense connections. This permits the use of three general sensor inputs and one multipurpose input/output or one general sensor input and two multipurpose input/outputs.

Also supplied as standard are five selectable relays, six taggable timers, two flow switch inputs and two inputs suitable for use with dry contact or hall effect water meters.

The capability of the Model LV controller can be expanded by use of a USB Expansion Hub and a Relay Expansion Box.

The USB Expansion Hub expands the capability to two Multipurpose IntelliSense inputs/outputs and any combination of up to four conductivity, toroidal, pH or Redox IntelliSense inputs.

The Relay Expansion Box expands the capability to up to nine selectable relays.

Features

- Easily accessible On/Off/Auto buttons allow for control of relays
- The IP56 enclosure makes the unit suitable for use in rugged environments
- Bright LED's give quick visual indication of relay status, power and scheduled service needs
- Large 128 x 64 pixel, easy to read, back lit LCD display
- The menu key allows for quick return to the home screen
- Soft Keys allow for easy programming and flexibility
- Innovative design using USB technology makes the Model UV customisable and allows for control of one or two systems with up to four sensor inputs
- Volt free contact inputs allow for water meter and flow switch connections
- Additional cost option of communications via USB, modem or Ethernet

Vision Series



Model LV Specifications

Enclosure	Impact resistant ABS plastic with IP56 protection
Power requirements	100 – 240VAC @ 50/60 Hz, 30 VA
Relay outputs (powered)	5 selectable relays are standard. Expandable to 9 selectable relays via a Relay Expansion Box
Timers (Taggable)	Six (programmable)
Control Output	Line voltage @ 300 VA (5 amps @ 120 VAC) per relay
Display	128 x 65 dot pixels Back Lit Display
Internal Power Switch	Standard
Power Indicator	Standard
Alarm Indicator	Standard
Scheduled Service Indicator	Standard
USB/RS-422 Inputs/Outputs	Three – Standard Expandable via use of 7 port USB Expansion Hub
Conductivity Scale ¹	0 – 20000 µS/cm
Toroidal Conductivity Scale ¹	500 – 200000 µS/cm
pH Scale ¹	0 – 14
Redox Scale ¹	± 2000mV
Chlorine Dioxide Scale ²	0 – 2 or 0 – 10 ppm
Front Panel H/O/A Control	Standard
4 – 20 mA Inputs	One per MPIO ³ used Maximum of two MPIO's
4 – 20 mA Outputs	One per MPIO ³ used Maximum of two MPIO's
Contact Inputs	Four as standard Expandable via use of MPIO One per MPIO ³ used Maximum of two MPIO
Contact Outputs	One per MPIO ³ used Maximum of two MPIO
Accuracy – at point of measurement, excluding probe	± 2% of full scale
Environment	-17.8 – 50°C 100% Humidity
Dimensions (mm)	273 x 203.2 x 152.4
Shipping Weight (kg)	3.62

- 1 Sensors require the use of USB inputs/outputs. The Model UV is supplied as standard with two USB inputs/outputs and can receive a maximum of one sensor input. Sensors require the use of an IntelliSense.
- 2 Ion specific sensors require the use of an MPIO and count as a multipurpose and general sensor IntelliSense input.
- 3 MPIO is the abbreviation for Multipurpose IntelliSense.

See separate Application Sheet for details regarding the selection and installation of the Model UV product range.

Other Vision Series Products



Model UV - A single system process control instrument, designed to handle virtually all common cooling, boiler and process water treatment applications. Available in only one model, it is supplied in a standard format with popular features, many of which are automatically activated.

As standard, it is supplied with two IntelliSense connections allowing for the use of one multipurpose IntelliSense input/output and one general sensor IntelliSense (conductivity, toroidal, pH, or Redox), five selectable relays, three taggable timers, one flow switch input and one input suitable for use with dry contact or hall effect water meters.



IntelliSense - IntelliSense is a new concept in the measurement of specific parameters in process applications.

By converting an analogue sensor input to a digital signal, the IntelliSense provides auto sensor recognition that eliminates drifting potential and allows travel of up to 300 metres. Each of the five available sensory heads is colour coded and measures a multitude of variables.

Relay Expansion Box - Used to add four additional relays to a Model LV. A maximum of one relay expansion box can be used with the Model LV and will require the use of one USB input.

USB Expansion Hub - For use with the Model LV controller only to maximise the number of USB inputs/outputs. The USB expansion hub is required if more than three USB inputs/outputs are to be used with a Model LV. A maximum of one USB expansion hub can be used with the Model LV.

The USB expansion hub cannot be used with the Model UV Controller.



IntelliScan - A handheld device that revolutionises the calibration process by eliminating the need for manual data entry. It has an infrared port that allows calibration data to be transmitted to the IntelliSense from the IntelliScan. The unit is supplied with its own convenient carrying case and belt-clip attachment.

For full technical details of the family of components described, refer to the relevant data sheet specific to that product.