

# Model LV

# Vision Series

Pulsafeeder's Vision Series Model LV is a flexible process control instrument, designed to handle many types of applications and capable of handling up to two systems. Features consist of direct connect and remote communications capability, a 28 day timer, a programmable alarm relay, alarm functionality and security.

As standard, it comes with three IntelliSense connections (allowing for the use of three general sensor inputs, two general sensor inputs and one multipurpose input/output or one general sensor input and two multipurpose inputs/outputs), five selectable relays, six taggable timers, two flow switch inputs, two inputs suitable for use with dry contact or hall effect water meters, and direct connect communications capability.

The Model LV's capability can be maximized to allow it to handle up to two Multipurpose IntelliSense inputs/outputs and any combination of up to four conductivity, pH or ORP IntelliSense inputs through the use of a USB Expansion Hub and up to eight selectable relays (nine if the alarm is programmed as a standard relay) through the use of a Relay Expansion Box.

## Features:

- LV units come standard with the ability to communicate with a PC via a direct connection (USB) and Pulsafeeder's Intellicom communications platform! Remote communications are also supported via Intellicom with either the modem or Ethernet communication options.
- Application flexibility via a programmable alarm relay, which allows the alarm relay to be configured and used as a standard relay instead of a dedicated alarm!
- A 28 day timer with a programmable start date and four independent run times per timer allows for greater flexibility and control for time dispensed chemicals!
- High/Low alarm functionality is built directly into the Cooling Tower and Boiler control modes to allow for alarm notification of High/Low conductivity levels!
- Security functionality through the addition of a factory secured bypass code prevents hassles associated with lockouts in the field!
- Easily accessible On/Off/Auto buttons allow for control of relays
- The NEMA 4X/IP56 enclosure makes this unit suitable for use in rugged environments
- Innovative design using USB technology makes the Vision Series Model LV customizable and allows for control of one or two systems with up to four sensor inputs
- Dry contact inputs allow for water meter and flow switch connections
- 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



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# Vision Series Model LV Specifications

Enclosure	Nema 4X Impact Resistant ABS
Power Requirements	100 - 240 VAC @ 50/60 Hz, 30VA
Relay Outputs (powered)	5 selectable relays are std. Expandable to 9 sel. 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 Indicatr	Standard
Scheduled Service Indicator	Standard
USB / USB Extension	Three - Standard Expandable via use of 7 port USB Expansion Hub
Conductivity Scale <sup>1</sup>	0 - 20,000 µS/cm
pH Scale <sup>1</sup>	0 - 14 pH
ORP Scale <sup>1</sup>	+/- 2,000 mV
CIO2 Scale <sup>2</sup>	0 - 2 or 0 - 10 ppm
Front Panel H/O/A control	Standard
4-20 mA Inputs	One per MPIO <sup>3</sup> Max of two MPIO
4-20 mA Outputs	One per MPIO <sup>3</sup> Max of two MPIO
Contact Inputs	Four - Standard Expandable via use of MPIO's One per MPIO <sup>3</sup> used Max of two MPIO's
Contact Outputs	One per MPIO <sup>3</sup> used Max of two MPIO
Accuracy - At point of measure excluding Probe	+/- 2% of full scale
Environment	0 to 122° F -17.8 - 50° C 100% Humidity
Agency Approvals	ETL, ETLc, CE, CB
Dimensions	10.75 x 8 x 6 in 27.3 x 20.32 x 15.24 cm
Shipping Weight	approx. 8 lbs (3.62 kg)

## Other Vision Series Products

**Vision Series Model UV** - A single system process control instrument, designed to handle many types of applications. It comes standard with popular features, many of which are automatically activated.

As standard, the UV comes with two IntelliSense connections allowing for the use of one multipurpose IntelliSense input/output and one general sensor IntelliSense input (conductivity, pH or ORP), 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** - By converting an analog sensor input to a digital signal, the IntelliSense provides auto sensor recognition that eliminates drifting potential and allows travel of up to 150 feet. Each of the five available sensory heads are color coded and measure a multitude of variables.

**Relay Expansion Box** - Used to add four additional relays to a Vision Series 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 Vision Series Model LV to maximize 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 LiquiVision. A maximum of one USB expansion hub can be used with the Model LV.

**IntelliScan** - A handheld device that revolutionizes 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 IntelliScan comes with its own convenient carrying case and belt-clip attachment.

**IntelliCom** - The IntelliCom communications platform is an easy-to-use communications package that provides the ability to conveniently manage customer accounts and Vision Series controllers out of one application. IntelliCom supports Ethernet, modem or direct connect communications and allows for e-mail notification of alarms with Ethernet or modem (IntelliCom Alert service option) communications.

With advanced features such as multi-parameter graphing with event logging, real time monitoring of system parameters, remote relay control, system configuration reports, and multi-level prioritization of e-mail alarm notifications, IntelliCom is the solution for effective process control management.

<sup>1</sup> Sensors require the use of USB connections. The Model LV comes standard with three USB connections, but can be expanded via a USB Expansion Hub. The Model LV can receive a maximum of four sensor inputs. Sensors require the use of an IntelliSense.

<sup>2</sup> Ion specific sensors require the use of an MPIO and count as a multipurpose and general sensor IntelliSense input.

<sup>3</sup> MPIO refers to the multipurpose IntelliSense.



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