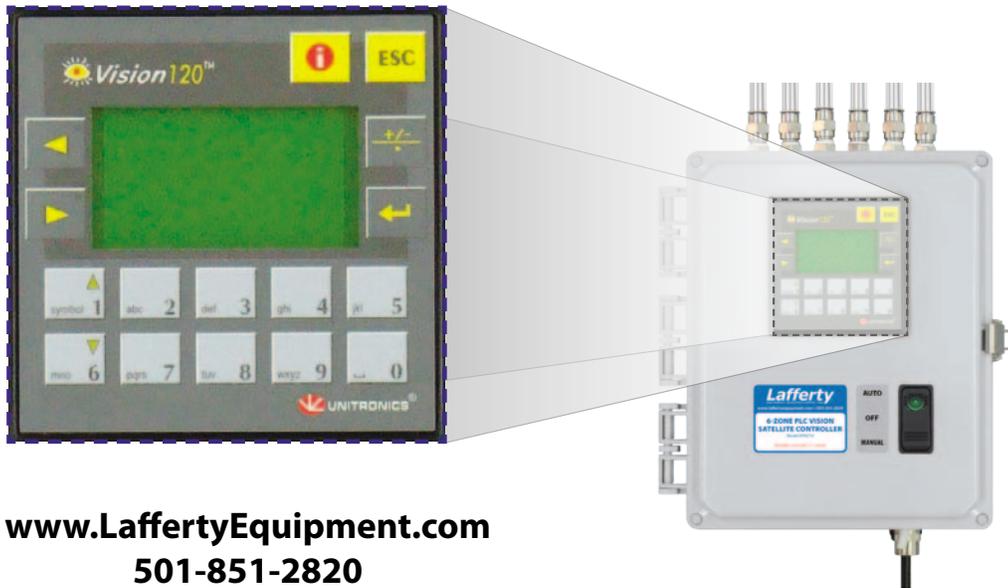


LAFFERTY EQUIPMENT MANUFACTURING, INC.

Program Settings Instructions

#976710 6-Zone PLC Vision Satellite Controller



www.LaffertyEquipment.com
501-851-2820

- The PLC Vision Central System Controller is for facilities that need independent control of up to six zones.
- The following Lafferty Satellite Entryway Foam Sanitizers are designed specifically for use with this controller:

Venturi Satellites: Each requires a dedicated container of chemical concentrate.

- 976734 Vision Satellite Entryway Foam Sanitizer
- 976735 Vision Satellite Entryway MV Foam Sanitizer
- 976736 Vision Satellite HV Entryway Foam Sanitizer

Pump Fed Satellites: Each receives pre-diluted chemical from a central chemical feed system.

- 976724 Vision Satellite PF Entryway Foam Sanitizer
- 976725 Vision Satellite PF Entryway MV Foam Sanitizer
- 976726 Vision Satellite PF Entryway XV Foam Sanitizer

- A Programmable Logic Controller (PLC) provides menu-driven, computerized control for finely setting the timing and duration of foam sanitizing on a 24/7/365 basis, independently for up to six zones with up to 10 satellites per zone.

Includes manual override feature for deactivation or activation of the system during any of the cycles, without affecting the programming

Set-Up and Operation Overview

Passwords

- **Administrator password** — Required to set up and change the parameters of the entryway foam sanitizing operation.
- **User password** — Required so the system can be set to Manual Mode for a specified period of time. — *Example: During scheduled maintenance foam sanitizing may be required outside normal facility operational hours.*

PLC Automatic Operational Modes

The PLC is programmed to display one of three automatic Modes, depending upon the time, day and parameters set.

“Auto” Mode: Operating automatically with all pre-set parameters during normal facility operational hours

“Standby” Mode: Operating automatically with all pre-set parameters, but temporarily shut down as the time or day is outside normal facility operational hours.

“Holiday” Mode: Operating automatically with all pre-set parameters, but temporarily shut down as a pre-set holiday puts the time or day outside normal facility operational hours.

PLC Manual Operation Mode

To allow for foam sanitizing application for special circumstances during times when the system is programmed to be idle, the unit can be activated in Manual Mode for a specified period of time. Activating Manual Mode will override Standby and Holiday Modes without changing the pre-set parameters.

1 PASSWORDS

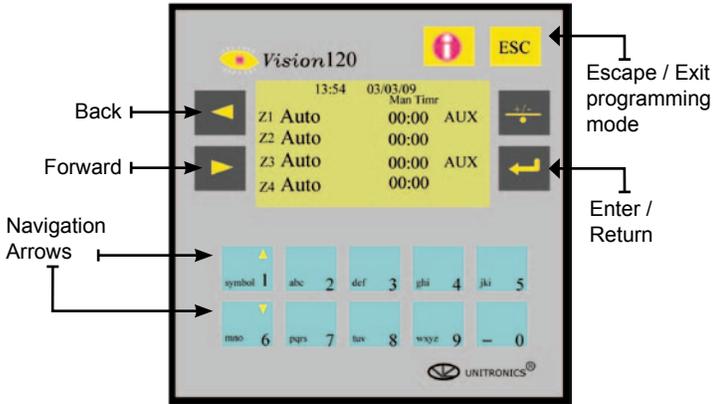
The Vision PLC has two levels of password control:

- Administrator (ADM) - required for all set up of and changes to operating parameters
- User – for activating “Manual” Mode In periods outside normal facility operation hours

The PLC is supplied with the passwords pre-set at:

- Administrator (ADM) – 2820
- User – 3719

These passwords may be changed or retained at the preference of the Administrator.



Administrator Password Set-up/Change

Password entry press 2 times

Enter Admin Password

XXXX

XXXX

to Confirm Password

Functions: Set Zone

Up 2 times – Go to Functions: Set Admin Password

Functions: Set Admin Pass

Enter "Set Admin Password"

Admin Password xxxx

Enter new password

Confirm Password

Functions: Set Admin Pass

Press down arrow to go to other Functions

OR

Exit to Operational Mode

User Password Set-up/Change

Password entry press 2 times

Enter Admin Password

XXXX

XXXX

to Confirm Password

Functions: Set Zone

Up 1 time – Go to Functions: Set User Password

Functions: Set User Password

Enter "User Password"

User Password xxxx

Enter new password

Confirm Password

Functions: Set User Password

Press down arrow to go to other Functions

OR

Exit to Operational Mode

2 REQUIRED SETTINGS FOR OPERATION – (Set through the Administrator Function, only)

Set Clock:

Set the unit's clock to the current time and date, using the 24 hour and MM/DD/YYYY format.

Set/Change Clock

Password entry press 2 times

Enter Admin Password

XXXX

to confirm Password

Functions: Set Zone

Up 3 times

Functions: Set Clock

Enter clock set function

Time: 16:05:00

Date: 02/29/2009

Set Hour, Minute, Seconds; Month, Day and Year. Press "Enter/Return" to move from clock to the calendar function

Return to Functions: Set Clock

Down 3 times — Go to Functions: Set Zone to select Zone # for other settings shown at right (See ♦.)

OR

Exit to Operational Mode

Cycle Time by Zone:

ON Time (seconds) – Length of time that foam will be applied (typically :08 to :10/up to :99 sec.)

OFF Time (minutes) – Length of time between foam applications (typically 8-10 min./up to 99 min.)

Set/Change Cycle Time by Zone

Password entry press 2 times

Enter Admin Password

XXXX

to confirm Password

Functions: Set Zone

Set Zone X

Enter Zone #

Functions: Set Zone

Down 1 time then

Zone x (zone # entered above)

Cycle on: 10 sec

Cycle off: 08 min

Enter times (Press Enter to move from 1st to 2nd line)

Enter Functions: Set Cycle Time

Up 1 Time — Go to Set Zone

OR Down — Go to other functions OR

Exit to Operational Mode

Days of the Week:

Enter the days of the week and the times of the day that correspond to normal facility operational hours. These are the time periods when the foam sanitizer will operate in Auto Mode.

Set/Change Days of Week

Password entry press 2 times

Enter Admin Password

XXXX

to Confirm Password

Functions: Set Zone

Set Zone X

Enter Zone #

Functions: Set Zone

Down 2 times — Go to

Set Days in week

Functions: Set Days in Wk.

Set Days of Wk. - Sunday

Enter Sunday time set

Sunday Zone 1

Time on 0800

Time off 1700

Enter times in 24

Hour time ONLY

(Press Enter to move from 1st to 2nd line)

Entering all zeroes in both fields indicates the facility is not operating that day.

Set Days of Wk. - Sunday

Down 1 time

Set Days of Wk. - Monday

Enter Monday time set

Monday Zone 1

Time on 0800

Time off 1700

Enter times in 24

Hour time ONLY

(Press Enter to move from 1st to 2nd line)

REPEAT FOR THE REMAINING DAYS

OF THE WEEK

Back to Functions

Exit to Operational Mode

OR

Up 2 times — Go to

Set Zone Function (♦) to select

another zone

This system is now operational in accordance with specific zone settings.

3 OPTIONAL SETTINGS FOR ENHANCED OPERATION

Note: *Optional Settings can be set through the Administrator function only.*

• **Auxiliary Cycles:**

An Auxiliary Cycle can be set for times when extra amounts of foam sanitizer are needed — for example, prior to, during, and after breaks and during known times of heavy traffic.

The Auxiliary Cycle overrides the standard Cycle at the times designated. Up to 22 auxiliary time periods can be set up for each day and are typically set for about 15 seconds of foaming and 3-5 minutes between applications.

Set/Change Auxiliary Cycle

Password entry press 2 times

Enter Admin Password

Enter Admin Password

XXXX

to confirm Password

Functions: Set Zone

Set Zone X

Enter Zone #

Functions: Set Zone

Down 3 times — Go to Fcct: Set auxiliary time

Functions: Set aux time

Enter set auxiliary time

Zone X (zone # entered above)

Cycle on	15	Sec	
Cycle off	5	Min	

Use Numeric key pad to enter times
(Press Enter to move from 1st to 2nd line)

Functions: Set aux time

Down 1 – Go to Set Auxiliary Period Times (Details in next column –)

OR

Up 3 times — Go to Function: Set Zone () to select another zone

OR

ESC Exit to Operational Mode

Set/Change Auxiliary Period Times**Enter Admin Password**

XXXX

Functions: Set Zone **Set Zone 1 (or last set zone)****Functions: Set Zone****Functions: Aux Period time** **Aux Cycle Period 1**

Zone X (zone # entered above)

Aux Cycle Period 1**Aux Cycle Period 2**

Zone X (zone # entered above)

ESC Exit to Operational Mode

• **Holiday / Shut-down Times:**

Up to 16 named or numbered periods can be programmed for times when the facility will not be operating normal hours. Some Holiday names are pre-entered, but the actual dates and times must be set up. Any date and time can be set for any of the named holidays or numbered shut-down periods.

Set/Change Holiday Times

Password entry press 2 times

Enter Admin Password

Enter Admin Password

XXXX

to confirm Password

Functions: Set Zone

Down 5 times – Go to Functions: Holiday Settings

Functions: Holiday settings

Enter Set Holidays

Set HOLIDAYS

New Year's Day

Set times, New Year's Day. **Enter all zeros to de-activate this setting.**
(Press Enter to move from number set to number set.)

START	HH:mm	MM/dd	
END	HH:mm	MM/dd	

Enter times in 24 Hour time **ONLY** & Date in U.S. format (Month/Day).

Set HOLIDAYS

New Year's Day

Down 1 – Memorial Day

Set HOLIDAYS

Memorial Day

Set times, Memorial Day

START	HH:mm	MM.dd	
STOP	HH:mm	MM.dd	

Enter times in 24 Hour time **ONLY** & Date in U.S. format (Month/Day).

Repeat for other 14 Holidays / periods as needed.

OR

Back to Functions – OR

ESC Exit to Operational Mode

• **Strobe Time:**

An optional **strobe** may be installed to alert personnel in advance of foam application. These settings define the number of seconds between the strobe's activation and the beginning of foam application (typically set at between 5 & 15 seconds). The strobe will be deactivated at the end of the foaming application.

Set/Change Strobe

Password entry press 2 times

Enter Admin Password

Enter Admin Password

XXXX

to confirm Password

Functions: Set Zone

Set Zone 1 (or last set zone)

Enter Zone # for the zone you wish to adjust

Functions: Set Zone

Down 6 times – Go to Function **Strobe time**

Function: Strobe Time

Strobe Time	Zone X
00 sec	Before

Numeric key pad to enter time in seconds

Return to Functions: Strobe Time

Down 1 – Go to set Functions: External Eye

(See next page, item 4 – Optional Photocell for further instructions.)

Up to return to other Functions OR

ESC Exit to Operational Mode

Optional External Sensor / Electric Eye Mode:

The system can be set to function with an optional Photocell (electric eye / infrared sensor) or other external sensor —"Ext/Eye" mode. **Only** the Clock and Auxiliary Cycle need to be set when the Ext/Eye mode is used. **See setting details on page 4.**

4 OPTIONAL PHOTOCELL

Note: Optional Settings can be set through the Administrator function only.

- The Auxiliary Cycle must be set up **before** activating the Ext/Eye Mode.
- This setting is for use with an optional photocell (or other external 24V DC sensor trigger). *(Please consult Lafferty before installing photocells or other external inputs.)*
- Activation of the unit by an external trigger initiates a single Auxiliary Cycle of foam sanitizing.
- If Ext/Eye is enabled, the unit will produce foam each time the photocell is tripped, regardless of the time of day, day of the week or whether the day has been designated as a holiday. However, the unit will not provide additional foaming cycles for periods that have already been designated as heavy traffic periods and covered by the Optional Auxiliary Cycle (see instruction 3, previously).

Once the Clock, the Auxiliary Cycle and the Ext/Eye mode have been set, no other cycle or day settings are required.

Set/Change Ext/Eye

Password entry press 2 times

Enter Admin Password

Enter Admin Password

XXXX

to confirm Password

Functions: Set Zone

Set Zone 1 (or last set zone)

Enter Zone # for the zone you wish to adjust

Functions: Set Zone

Down 7 times – Go to Function **External Eye**

Function: External Eye

Use the Enter/Return key to toggle between On / Off

Function: Ext / Eye

Up to return to other Functions OR

Exit to Operational Mode

5 DAYLIGHT SAVINGS TIME SETTINGS

- Default setting is for U.S. time. Follow steps below to change settings.
- To disable DST, enter zero for times and select blank for wk., day, month.

Daylight Savings Time

Password entry press 2 times

Enter Admin Password

Enter Admin Password

XXXX

to confirm Password

Functions: Set Zone

Up 4 times – Go to Functions: Daylight Savings Time

Functions Daylight Savings Time

to set Daylight Savings Time

Daylight savings time edit

Start **xxxx** (wk) (---day)
IN (month)

End **xxxx** 1st (---day)
IN (month)

Offset **100** HHMM

Press 5 to allow editing

Enter the Start time in 24 Hour time **ONLY**

to move to week and day and month. The item to be set will be highlighted in **black**

Use Up and Down arrows to scroll through options.

Week: 1st; 2nd; 3rd; 4th; Last, blank

Day: Sunday, Monday, etc., blank

Month: January, February, etc., blank

Enter the End time in 24 Hour time only

to move to week and day and month. The item to be set will be highlighted in **black**

Use Up and Down arrows to scroll through options as noted above.

Enter the Offset time in HHMM format to set the time difference between Standard and Daylight times. (One hour = 0100.)

to confirm settings

Exit 1 time — Return to Functions

OR

2 times — Go to Operational Mode

For Daylight Savings Time start & stop dates see this web site:
www.worldtimezone.com/daylight.html

OPERATING INSTRUCTIONS

PLC AUTOMATIC OPERATION
Once the clock, cycle time and days of the week have been set up for **each zone**, the system is operational.

PLC MANUAL OPERATION
To allow for foam sanitizing application for special circumstances during times when the system is programmed to be idle, the unit can be activated in Manual Mode for a specified period of time. Activating Manual Mode will override Standby and Holiday Modes without changing the pre-set parameters and will produce foam according to the parameters set for the CYCLE TIME in step 2 of the set up instructions. This will continue for the specified Manual Mode time period and the unit will then revert to whichever mode it would normally be in at that time of the day or day of the week.

The User Password enables access to set the unit to Manual Mode and to specify the time period that the unit will stay in Manual Mode in 30 minute increments.

Set / End Manual Mode

Password entry press ONE time

Enter USER Password

Enter USER Password

XXXX

to confirm Password

(Depending on the day or the time of day, one of the three following messages will appear.)

MANUAL	Zone x
AUTO	
Manual time	00:00

MANUAL	Zone x
Standby	
Manual time	00:00

MANUAL	Zone x
Holiday	
Manual time	00:00

The number for the Zone designation will be blinking. Enter the number for the Zone you wish to manually control.

(Continued in next column.)

to confirm the Zone number

Up to increase time in 30-minute increments

Down to decrease time in 30-minute increments

(To end Manual Mode, decrease the time to zero.)

Forward Arrow to set Manual Mode time.

The second line of the display will change to "Manual Mode" to confirm manual activation.

MANUAL	Zone x
Manual Mode	
Manual time	00:00

Exit to Operational Mode

To set manual control for additional zones, repeat the steps shown above, entering a different zone number each time.

To end Manual Mode, follow details above and decrease the Manual Mode time to zero.