

LAFFERTY EQUIPMENT MANUFACTURING, INC.

Program Settings Instructions

Model #976630 • PLC Jazz Entryway Satellite Controller



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PLC Entryway Foam Sanitizers bring a new level of versatility and flexibility to the automated foam sanitizing of controlled entryways.

A pre-programmed Programmable Logic Controller (PLC) provides fully programmed, menu-driven, computerized control for finely controlling the timing and duration of foam sanitizing on a 24/7/365 basis;

A manual override switch provides for instant foam and the ability to quickly, temporarily, disable the unit.

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 when necessary (see below). — *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.

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.

1 PASSWORDS

The 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	User Password Set-up/Change
Password entry press two times	Password entry press two times
Enter ADM Pass	Enter ADM Pass
Enter Admin Password	Enter Admin Password
XXXX	XXXX
Password Confirm	Password Confirm
Functions: Set Clock	Functions: Set Clock
2 time to Set Admin Password	1 time to Set User Password
Functions: Set Admin Pass	Functions: Set User Pass
Enter "Set Admin Password"	Enter "Set User Password"
Admin Password xxxx	Admin Password xxxx
Enter Admin Password	Enter User Password
Password Confirm	Password Confirm
Return to Functions OR	Return to Functions OR
Operational Mode	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 two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

Enter clock set function

Time: 16:05

Date: 02/29/2008

Set Hour, Minute, Month, Day and Year. Press "Enter" to move from one to the next

Return to Functions OR

Operational Mode

The clock will not change automatically between Daylight Saving Time and Standard Time.

• Cycle Time:

ON Time (seconds) – Length of time that foam will be applied (typically :08 to :10/up to :999 sec.)

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

Set/Change Cycle Time

Password entry press two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

1 time to move to Set Cycle Time

Functions: Set Cycle Time

Enter Set Cycle Time

Cycle on: 10 sec

Cycle off: 08 min

Numeric key pad to enter times

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

Enter Set Cycle Time

Return to Functions OR

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 two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

2 times to move to Set Cycle Time

Functions: Set Days of Wk.

Enter Sunday Day set

Set Days of Wk. - Sunday

Enter Sunday Time set

SUN Time on 08:00

Time off 17:00

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

Enter Monday Time Set

Set Days of Wk. - Monday

Enter Monday Day set

MON Time on 08:00

Time off 17:00

Enter times in 24 Hour time ONLY

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

REPEAT FOR THE REMAINING DAYS OF THE WEEK

Return to Functions

Operational Mode

This system is now operational.

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 two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

3 times to move to **Aux Cycle time set**

Functions: Set Aux Cycle

Enter Aux Cycle set

Cycle on: 15 sec
Cycle off: 5 min

Numeric key pad to enter times

Enter Aux Cycle set

Functions: Set Aux Cycle

Return to Functions
 OR
 Operational Mode

Set/Change Auxiliary Cycle Times

Password entry press two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

4 times to move to **Aux cycle time set**

Functions: Aux Cycle Period

Enter Period 1 time

Aux Cycle Period 1

Period 1 time set

(Press Enter to move from number set to number set.)

START 00:00
STOP 00:00

Enter times in 24 Hour time **ONLY**

Enter Period 2 time

Aux Cycle Period 2

Period 2 time set

(Press Enter to move from number set to number set.)

START 00:00
STOP 00:00

Enter times in 24 Hour time **ONLY**

Enter Period 3 time

REPEAT FOR THE REMAINING 20 PERIODS (or as required).

Aux Cycle Time RETURN

Return to Functions
 Operational Mode

• **Holiday Times:**

Up to 16 days can be designated as Holidays — times when the facility will not be operating normal hours. While several of these are named, the actual dates and times for the Holidays must be set up. Any named or numbered Holiday can be used for any non-regular but scheduled event.

Set/Change Holiday Times

Password entry press two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

5 times to move to **Aux cycle time set**

Functions: Holiday settings

Enter Set Holiday

Set HOLIDAYS
New Year's Day

Enter New Year's Day times

(Press Enter to move from number set to number set.)

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

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

Set HOLIDAYS
New Year's Day

Memorial Day

Set HOLIDAYS
Memorial Day

Set time 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 14 times to move through all Holidays
 OR
 Press 2 times to return to Operational Mode

• **Strobe OR Buzzer Time:**

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

Set/Change Strobe/Buzzer Time

Password entry press two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

6 times to move to **Strobe time set**
OR
 7 times to move to **Buzzer time set**

Function: Strobe Time
OR

Function: Buzzer Time

Enter Strobe Time Set **or** Enter Buzzer Time Set

Strobe Time: 12 sec
OR
Buzzer Time: 12 sec

Numeric key pad to enter times

Enter Strobe Time **or** Enter Buzzer Time

Return to Functions
 OR
 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).
- 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 two times

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm

Functions: Set Clock

8 times to move to Ext/ Eye set

Function: Ext / Eye

Enter Ext/ Eye

To toggle between ON/OFF

Functions: Set Aux Cycle

Return to Functions OR

Operational Mode

4 DAYLIGHT SAVINGS TIME SETTINGS

- Default setting is for U.S. time. Follow steps below to change settings.
- To disable DST, set the OFFSET TIME to 0000.

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

Daylight Savings Time

Password entry press 2 times

Enter Admin Password

Enter Admin Password

XXXX

to confirm Password

Functions: Set Clock

Up 1 time – Go to Functions: Daylight Savings

Functions

Daylight Savings

to set Daylight Savings Time

Daylight Savings

DST Start (press)

Start xxxx(time) (wk) (day) IN (month)

Enter the Start time in 24 Hour time only

to move to week and day and month. (The item to be set will blink/ flash.)

Use Up and Down arrows to scroll through options.

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

Day: SUN, MON, etc.

Month: JAN, FEB, etc.

Left 1 time + down 1 time

Daylight Savings DST End (press)

End xxxx(time) (wk) (day) IN (month)

Enter End time (see Start time instructions, above)

Left 1 time + down 1 time

Daylight Savings Offset (press)

OFFSET TIME _100 (hhmm)

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

to confirm settings

Left 2 times to exit

OPERATING INSTRUCTIONS

• PLC AUTOMATIC OPERATION

Once the clock, cycle time and days of the week have been set up, the system is operational. Optional settings can be set, as and when desired.

• 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 Manual Mode

Password entry press ONE time

Enter USER Pass

Enter Admin Password

XXXX

Password Confirm and enter one of the Manual Setup screens
(Depending on the day or the time of day, one of the three following messages will appear.)

MANUAL	00
AUTO	
MANUAL	00
STANDBY	
MANUAL	00
HOLIDAY	
Toggle to Manual Mode	
MANUAL	00
MANUAL	
To add or remove time in 30 minute increments	
MANUAL	30
MANUAL	
MANUAL	60
MANUAL	
MANUAL	30
MANUAL	
Confirm mode selection	

End Manual Mode

Password entry press ONE time

Enter ADM Pass

Enter Admin Password

XXXX

Password Confirm and enter Manual Setup

MANUAL	78
MANUAL	
Toggle to one of the screens below. <i>(Depending on the day or the time of day, one of the three following messages will appear.)</i>	
MANUAL	78
AUTO	
OR	
MANUAL	78
STANDBY	
OR	
MANUAL	78
HOLIDAY	
Confirm mode selection	