

CRC-300 Conventional Releasing Panel

Program Templates



Potter Electric Signal Company, LLC

St. Louis, MO

Customer Service: (866) 240-1870 • Technical Support: (866) 956-1211 • Fax: (314) 595-6999

www.pottersignal.com

Templates #54035299X

05/26

CRC-300 Standard Program Information

The CRC-300 has built in standard program templates which are detailed on the following pages. Selecting one of these programs will automatically program every function of the panel except custom zone and banner messages.

NOTE:

The release soak time defaults to continuous for all programs.

In the Agent suppression programs, the predischARGE timer for detectors defaults to 60 seconds. The predischARGE timer for manual stations defaults to 30 seconds. The abort mode defaults to UL.

Default programming allows the activation of a zone programmed as, Manual Release, to override any cross zoning and abort to activate the release output it is mapped to. Abort override can be changed in the panel programming by allowing manual release zones to be aborted.

Default programming does not allow zones programmed as Manual Release to be aborted. This can be changed in the panel programming.

CRC-300 Standard Program Information

Press ENT to enter program mode.

Scroll down to see the various menu options. A blinking arrow $\longrightarrow$ indicates the current option.

Users can also simply enter the option number. See the Menu Tree for a complete list and location of options

Follow the on-screen instructions

NOTE: Some options have YES/NO selections. Use the up/down arrows to change selection.

To enter one of the standard programs:

1. Press ENT
2. Enter 6 or scroll down to PROGRAMMING, indicated by a flashing $\longrightarrow$ and press ENT.
3. Enter the password. Factory default password is, 1111.
4. Press 1 OR ENT to select PRORGAM NUMBER.
5. Enter the desired program number
6. Press ENT
7. Press 1 to accept the new program
8. Press ENT to accept the change and update the panel

All zones and outputs are now programmed and all mapping of zones to correlating outputs is complete.

For abort functionality (available in Agent Release Mode only), pre-discharge or soak timers are required, repeat steps 1-3. Then select the desired option and follow the on-screen instructions.

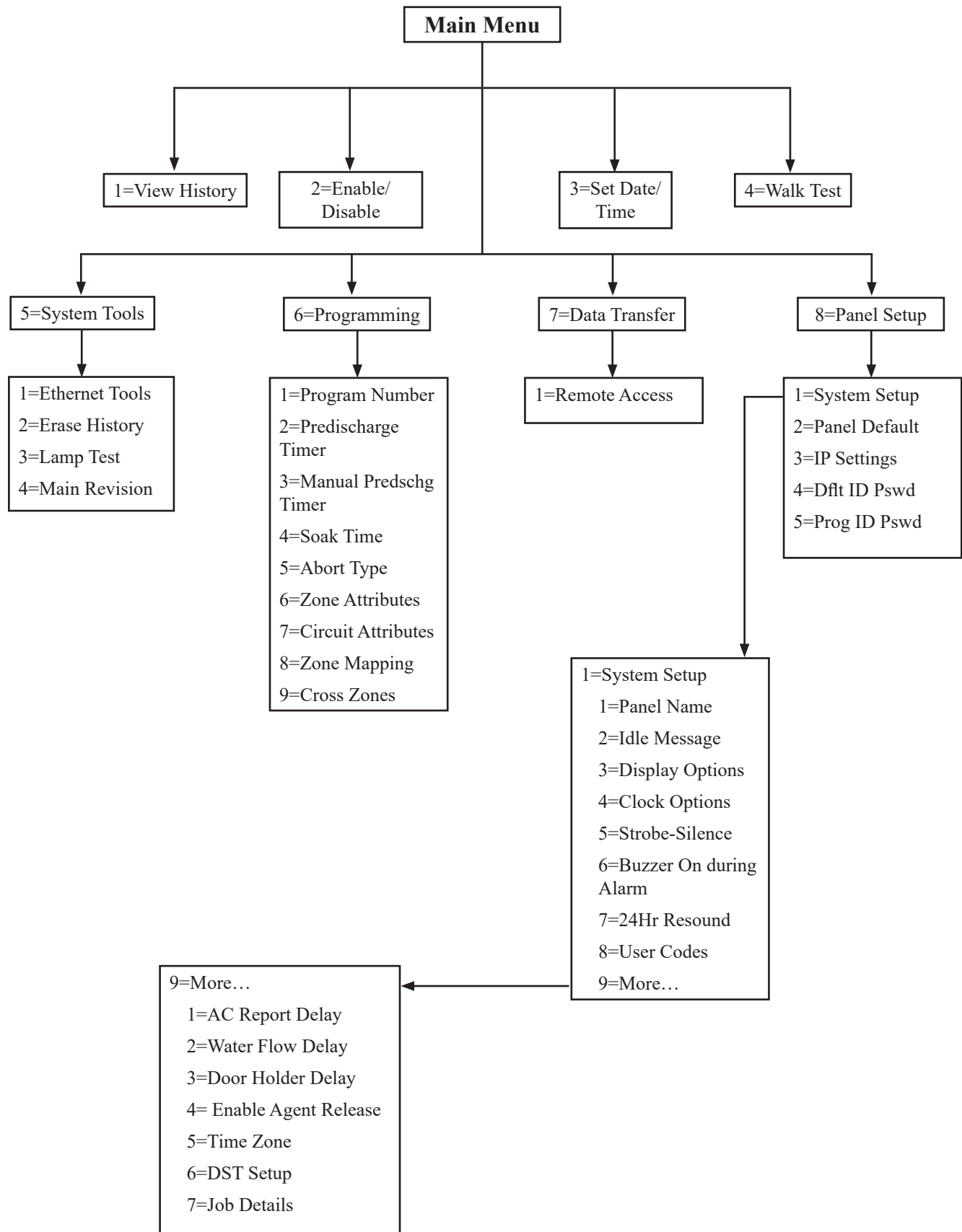
Modifications to standard programs is not allowed.

The following is an explanation of how the various programs operate and information about the types of devices that are to be connected to the input (Initiating) zones and output (NAC) circuits.

If none of the standard programs are acceptable for the operation required, selecting program 0 allows the user to create a custom program. Standard programs can also be modified to create custom programs. Simply select the standard program that is closest to the operation needed. Then selecting program 0 allows the user to make changes to the previously selected program as necessary.

If zone characteristics need to be modified, including latching, output patterns, manual/auto silence behavior. Repeat steps 1-6 above and select program 0. After the panel restarts to edit zone characteristics repeat steps 1-3 and select 6 ZONES.

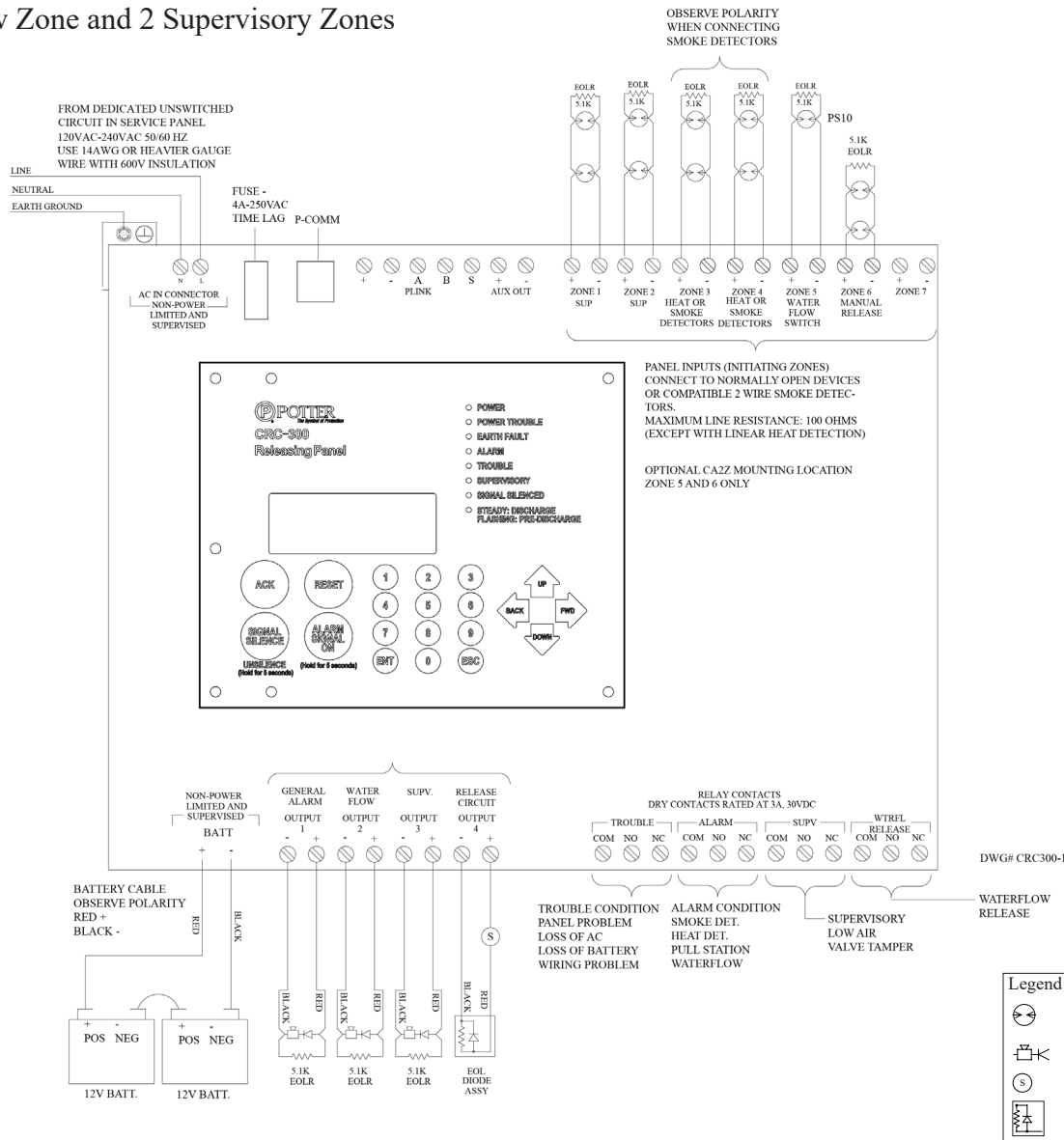
The water based extinguishing programs are numbered 1-16. The agent extinguishing programs are numbered 20-29.

Menu Tree

Wiring Diagram Program #1

Single Hazard, 3 Alarm Zones with 1

Waterflow Zone and 2 Supervisory Zones



Program #1 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 1 to change to program 1. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Non-Interlock or Single Interlock	PROGRAM #1						
Single Hazard, 3 Alarm Zones with 1 Waterflow Zone and 2 Supervisory Zones	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Supervisory	Supervisory	Detection	Detection	Waterflow	Manual Release	Unused
#1 ALARM INDICATING			X	X		X	
#2 ALARM					X		
#3 SUPERVISORY	X	X					
#4 RELEASE			X	X		X	

Description: Single hazard - 3 zone

Inputs: 2 detection zones, 1 waterflow zone, 1 manual release zone, 2 supervisory zones

Outputs: 1 general alarm, 1 waterflow, 1 solenoid release circuit, 1 supervisory

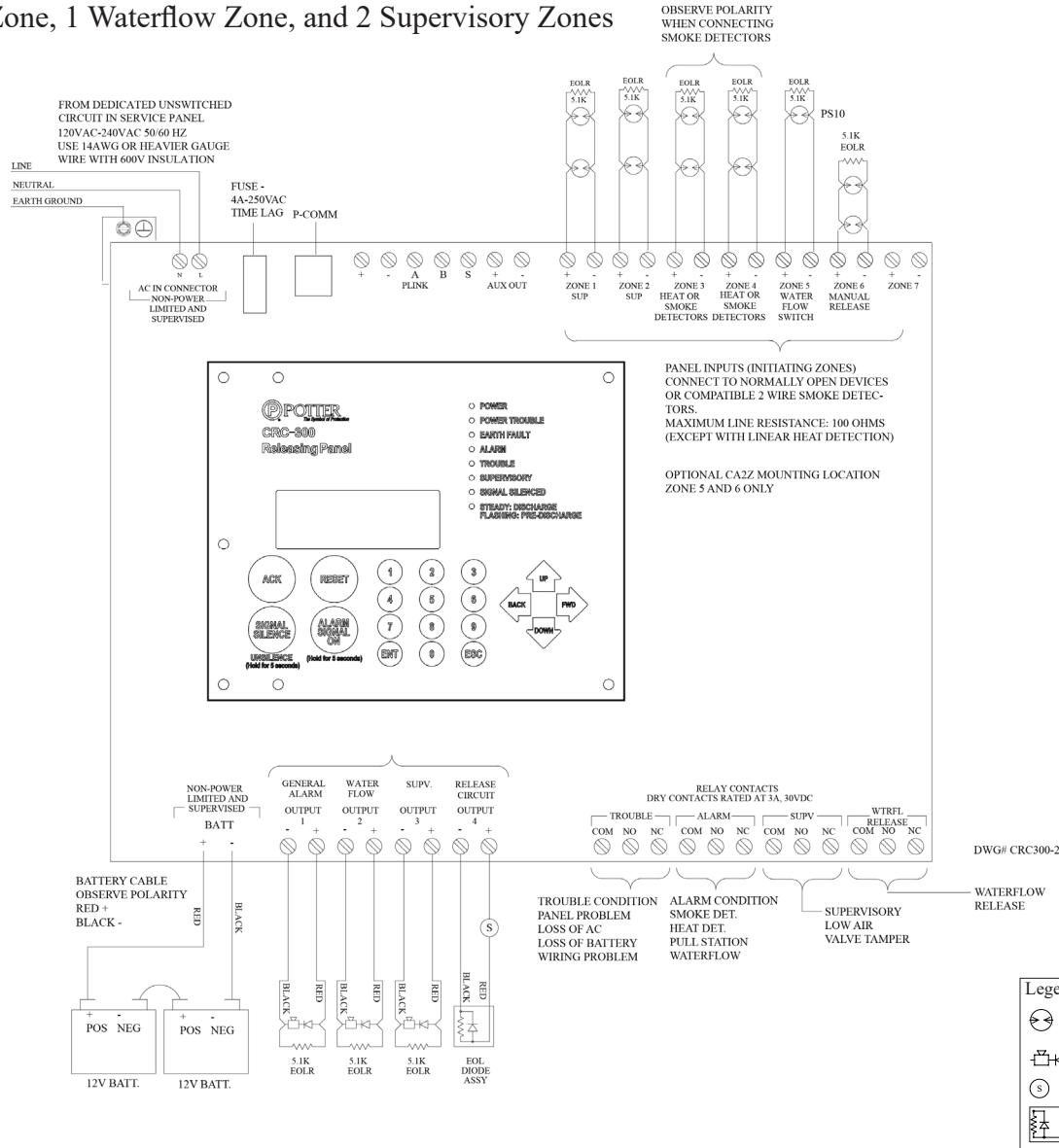
Operation: Activation of either Detection Input #3 or #4 or Manual Release Input #6 will operate Release Output #4 and Alarm Output #1.

Activation of Waterflow Input #5 will operate Alarm Output #2.

Activation of either Supervisory Input #1 or #2 will operate Supervisory Output #3.

Wiring Diagram Program #2

Single Hazard, 2 Alarm Zones (Cross-Zoned), 1 Manual Station Zone, 1 Waterflow Zone, and 2 Supervisory Zones



NOTES:

- Connect only UL Listed 24VDC devices to indicating circuits.
- Connect EOL Diode assembly IN SERIES with solenoid on release circuit
- Install EOLR (provided) on all unused circuits.
- Polarity is shown on indicating circuits in an activated (off-normal) condition.
- Polarity reverses when output is activated.
- Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
- Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
- All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
- Refer to Appendix A for test and maintenance information
- Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #2 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 2 to change to program 2. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Alarm Zones (Cross-Zoned), 1 Manual Station Zone, 1 Waterflow Zone, and 2 Supervisory Zones	PROGRAM #2							
	Conventional Input Zones							Software Zone
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory	Supervisory	Detection	Detection	Waterflow	Manual Release	Unused	Release Zone Type
#1 ALARM INDICATING			X	X		X		X
#2 ALARM INDICATING					X			
#3 SUPERVISORY	X	X						
#4 RELEASE			XX	XX		X		XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Single hazard, cross zone with manual station override.

Inputs: 2 detection zones (cross zoned), 1 waterflow zone, 1 manual release zone, 2 supervisory zones

Outputs: 1 general alarm, 1 waterflow, 1 solenoid release circuit, 1 supervisory

Operation: Activation of both Detection Inputs #3 and #4 at the same time, or activation of Manual Release Input #6 will operate Release Output #4 and Alarm Output #1.

Activation of either Detection Input #3 or #4 will operate Alarm Output #1.

Activation of Waterflow Input #5 will operate Alarm Output #2.

Activation of either Supervisory Inputs #1 or #2 will operate Supervisory Output #3.



1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #3 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 3 to change to program 3. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard with Trouble - 2 Alarm Zones, 1 Manual Station Zone, 1 Waterflow Zone, and 2 Supervisory Zones	PROGRAM #3							Software Zone
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory	Supervisory	Detection	Detection	Waterflow	Manual Release	Unused	Trouble Zone Type
#1 ALARM INDICATING			X	X	X	X		
#2 TROUBLE								X
#3 SUPERVISORY	X	X						
#4 RELEASE			X	X		X		

* Trouble Output uses a Software Trouble Zone Type in order to work properly.

Description: Single hazard, 3 zone with trouble.

Inputs: 2 detection zones, 1 waterflow zone, 1 manual release zone, 2 supervisory zones

Outputs: 1 general alarm, 1 trouble, 1 supervisory, 1 solenoid release circuit

Operation: Activation of either Detection Input #3 or #4 or the Manual Release Input #6 will operate Release Output #4 and Alarm Output #1.

Activation of the Waterflow Input #5 will operate Alarm Output #1.

Activation of either Supervisory Input #1 or #2 will operate the Supervisory Output #3.

Activation of any trouble condition with the panel will operate Trouble Output #2.



1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #4 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 4 to change to program 4. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Alarm Zones with 1 Waterflow and 3 Supervisory Zones	PROGRAM #4						
	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Supervisory	Supervisory	Detection	Detection	Waterflow	Low Air Supervisory	Unused
#1 ALARM INDICATING			X	X	X		
#2 ALARM INDICATING						X	
#3 SUPERVISORY	X	X					
#4 RELEASE			X	X			

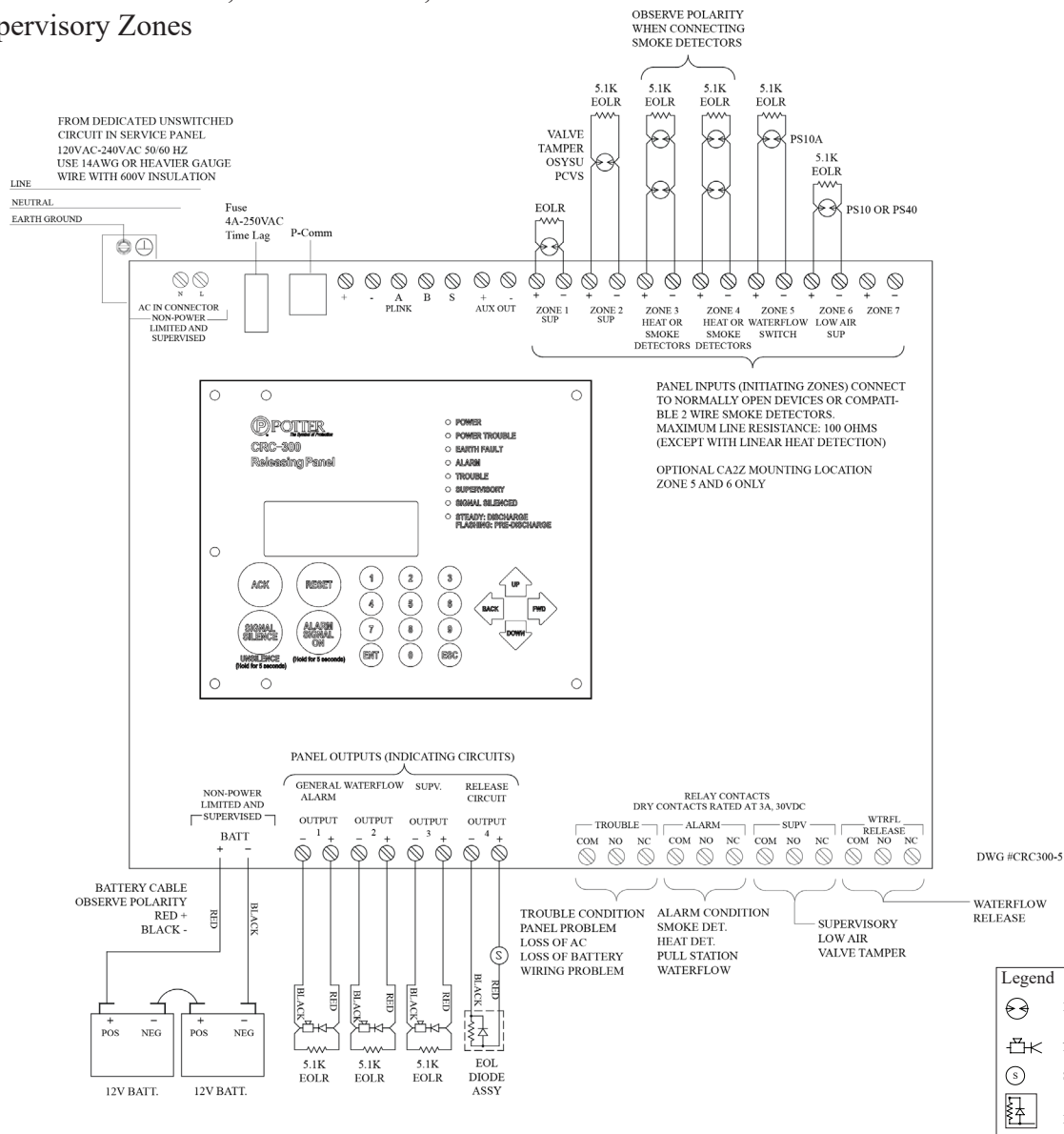
Description: Single hazard, 2 zones and 2 supervisory zones.

Inputs: 1 detection zone, 1 manual release zone, 1 waterflow zone, 1 low air zone, 2 supervisory zones

Outputs: 1 general alarm, 1 waterflow, 1 supervisory, 1 solenoid release circuit

Operation: Activation of either Detection Input #3 or #4 will operate Release Output #4 and Alarm Output #1.
Activation of either Low Air Supervisory Input #6 or Supervisory Input #1 or #2 will operate Supervisory Output #3.
Activation of Waterflow Input #5 will operate Alarm Output #2.

Wiring Diagram Program #5 Single Hazard Cross-Zoned, 2 Alarm Zones, 1 Waterflow Zone and 3 Supervisory Zones



NOTES:

- Connect only UL Listed 24VDC devices to indicating circuits.
- Connect EOL Diode assembly IN SERIES with solenoid on release circuit
- Install EOLR (provided) on all unused circuits.
- Polarity is shown on indicating circuits in an activated (off-normal) condition.
- Polarity reverses when output is activated.
- Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
- Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
- All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
- Refer to Appendix A for test and maintenance information
- Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #5 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 5 to change to program 5. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard Cross-Zoned, 2 Alarm Zones, 1 Waterflow Zone and 3 Supervisory Zones	PROGRAM #5							
	Conventional Input Zones							Software Zone
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory	Supervisory	Detection	Detection	Waterflow	Low Air Supervisory	Unused	Release Zone Type
#1 ALARM INDICATING			X	X				X
#2 ALARM INDICATING					X			
#3 SUPERVISORY	X	X				X		
#4 RELEASE			XX	XX				XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Single hazard, 2 zones and cross zoned with 2 supervisory zones.

Inputs: 2 detection zones (cross zoned), 1 waterflow zone, 1 low air zone, 2 supervisory zones

Outputs: 1 general alarm, 1 waterflow, 1 supervisory, 1 solenoid release circuit

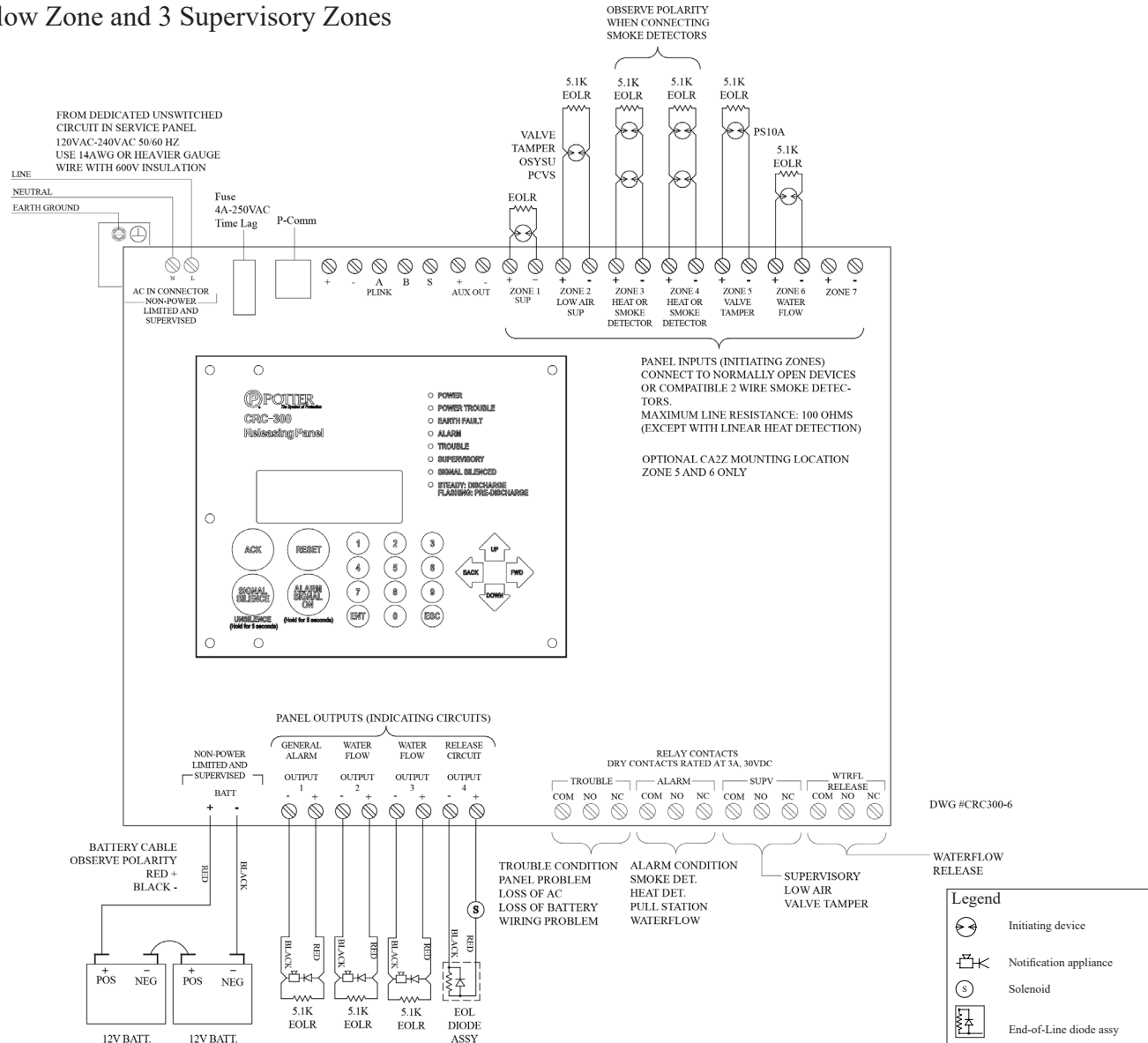
Operation: Activation of both Detection Inputs #3 and #4 at the same time will operate Release Output #4 and Alarm Output #1.

Activation of either Detection Input #3 or #4 will operate Alarm Output #1.

Activation of Waterflow Input #5 will operate Alarm Output #2.

Activation of Low Air Supervisory Input #6 or either Supervisory Input #1 or #2 will operate Supervisory Output #3.

Wiring Diagram Program #6 Single Hazard Two Detection Zones with 1 Waterflow Zone and 3 Supervisory Zones



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #6 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 6 to change to program 6. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard Two Detection Zones with 1 Waterflow Zone and 3 Supervisory Zones	PROGRAM #6						
	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Supervisory	Low Air Supervisory	Detection	Detection	Valve Tamper	Waterflow	Unused
#1 ALARM INDICATING			X	X		X	
#2 ALARM INDICATING						X	
#3 ALARM INDICATING						X	
#4 RELEASE			X	X			

Description: Single hazard, dual zone.

Inputs: 1 supervisory zone, 1 low air supervisory zone, 2 detection zones, 1 tamper switch zone, 1 waterflow zone

Outputs: 1 general alarm output, 2 waterflow outputs, 1 solenoid release circuit

Operation: Activation of either Detection Input #3 or #4 will operate Alarm Output #1 and Release Output #4.
Activation of Waterflow Input #6 will operate Alarm Outputs #1, #2 and #3.



1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Battery Calculation Worksheet for battery information.

Program #7 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 7 to change to program 7. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard Cross-Zoned, 1 Detection Zone with Low Air Supervisory Zone, 1 Waterflow, 1 Low Air Supervisory, and 2 Supervisory Zones	PROGRAM #7							
	CONVENTIONAL INPUT ZONES							Software Zone
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory	Supervisory	Detection	Low Air Supervisory	Waterflow	Low Air Supervisory	Unused	Release Zone Type
#1 ALARM INDICATING			X					X
#2 ALARM INDICATING					X			
#3 SUPERVISORY	X	X		X		X		
#4 RELEASE			XX			XX		XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

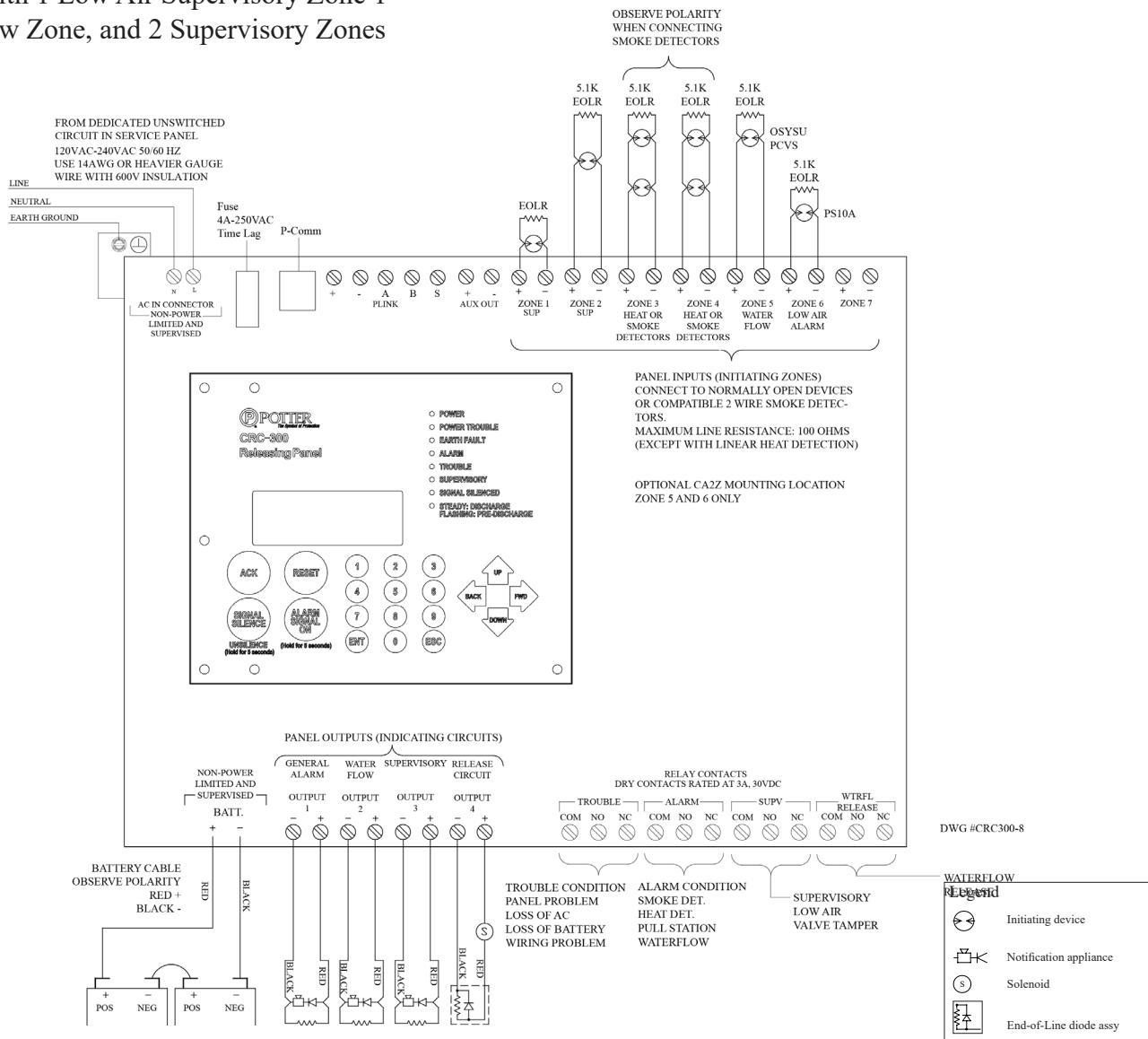
Description: Single Hazard, detection and low air supervisory zones cross-zoned**.

Inputs: 2 supervisory zones, 1 detection zone, 1 low air supervisory zone, 1 waterflow zone, 1 low air supervisory zone.

Outputs: 1 general alarm, 1 supervisory, 1 waterflow, 1 solenoid release circuit

Operation: Activation of Detection Input #3 and Low Air Supervisory Input #6 at the same time will operate Release Output #4, Alarm Output #1 and Supervisory Output #3.
 Activation of Detection Input #3 only will operate Alarm Output #1.
 Activation of Waterflow Input #2 will operate Alarm Output #2.
 Activation of Supervisory Input #1 or #2 or Low Air Supervisory Input #4 will operate Supervisory Output #3.
 Activation of Low Air Supervisory Input #6 is a Supervisory Event and will operate Supervisory Output #3 and the Supervisory Relay, but not the Alarm Relay.

Wiring Diagram Program #8 Single Hazard Cross-Zoned, 2 Detection Zones with 1 Low Air Supervisory Zone 1 Waterflow Zone, and 2 Supervisory Zones



NOTES:

- Connect only UL Listed 24VDC devices to indicating circuits.
- Connect EOL Diode assembly IN SERIES with solenoid on release circuit
- Install EOLR (provided) on all unused circuits.
- Polarity is shown on indicating circuits in an activated (off-normal) condition.
- Polarity reverses when output is activated.
- Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
- Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
- All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
- Refer to Appendix A for test and maintenance information
- Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #8 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 8 to change to program 8. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard Cross-Zoned, 2 Detection Zones with 1 Low Air Supervisory Zone 1 Waterflow Zone, and 2 Supervisory Zones	PROGRAM #8							Software Zone
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory	Supervisory	Detection	Detection	Waterflow	Low Air Supervisory	Unused	Release Zone Type
#1 ALARM INDICATING			X	X				X
#2 ALARM INDICATING					X			
#3 SUPERVISORY	X	X				X		
#4 RELEASE			XX	XX		XX		XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Single Hazard, 2 detection and low air supervisory zones cross-zoned**.

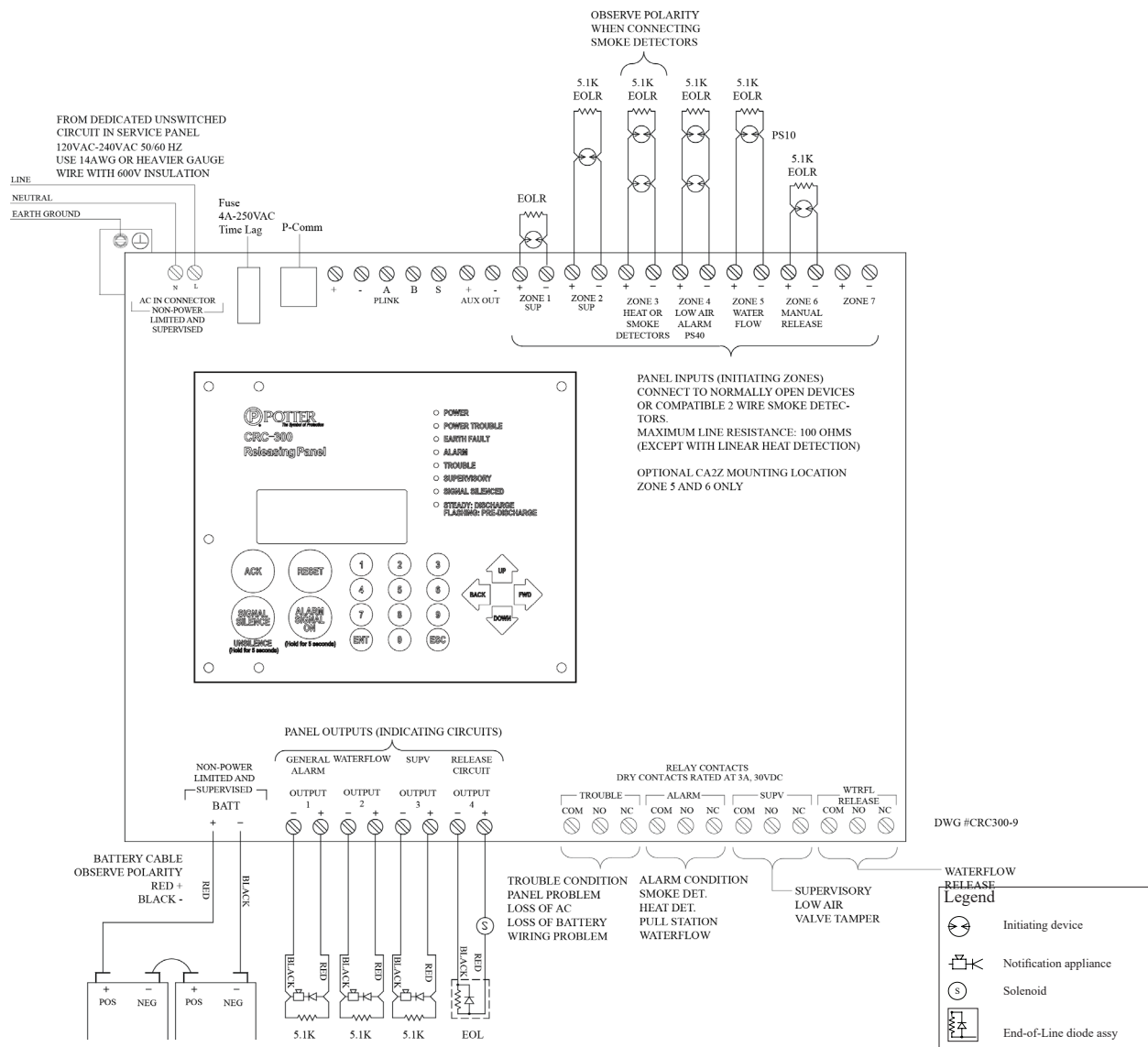
Inputs: 2 supervisory zones, 2 detection zone, 1 waterflow zone, 1 low air supervisory zone.

Outputs: 1 general alarm, 1 supervisory, 1 waterflow, 1 solenoid release circuit

Operation: Activation of both Detection Inputs #3 and #4 and Low Air Supervisory Input #6 at the same time will operate Release Output #4, Alarm Output #1, and Supervisory Output #3.
 Activation of either Detection Input #3 or #4 only will operate Alarm Output #1.
 Activation of Waterflow Input #5 will operate Alarm Output #2.
 Activation of Low Air Supervisory (same as Low Air Supervisory, but can be Cross-zone) Input #6 is a Supervisory Event and will operate Supervisory Output #3 and the Supervisory Relay, but not the Alarm Relay.

Wiring Diagram Program #9

Single Hazard Cross-Zoned, 1 Detection Zone with Low Air

Supervisory Zone 1 Waterflow, 1 Manual Release and 2 Supervisory
Zones

NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information
10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #9 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 9 to change to program 9. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard Cross-Zoned, 1 Detection Zone with Low Air Supervisory Zone 1 Waterflow, 1 Manual Release and 2 Supervisory Zones	PROGRAM #9							
	CONVENTIONAL INPUT ZONES							Software Zones
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory	Supervisory	Detection	Low Air Supervisory	Waterflow	Manual Release	Unused	Release Zone Type
#1 ALARM INDICATING			X			X		X
#2 ALARM INDICATING					X			
#3 SUPERVISORY	X	X		X				
#4 RELEASE			XX	XX		X		XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Single Hazard, detection and low air supervisory zones cross-zoned**. Also 1 waterflow and 1 manual release zone.
Manual release overrides cross zoning.

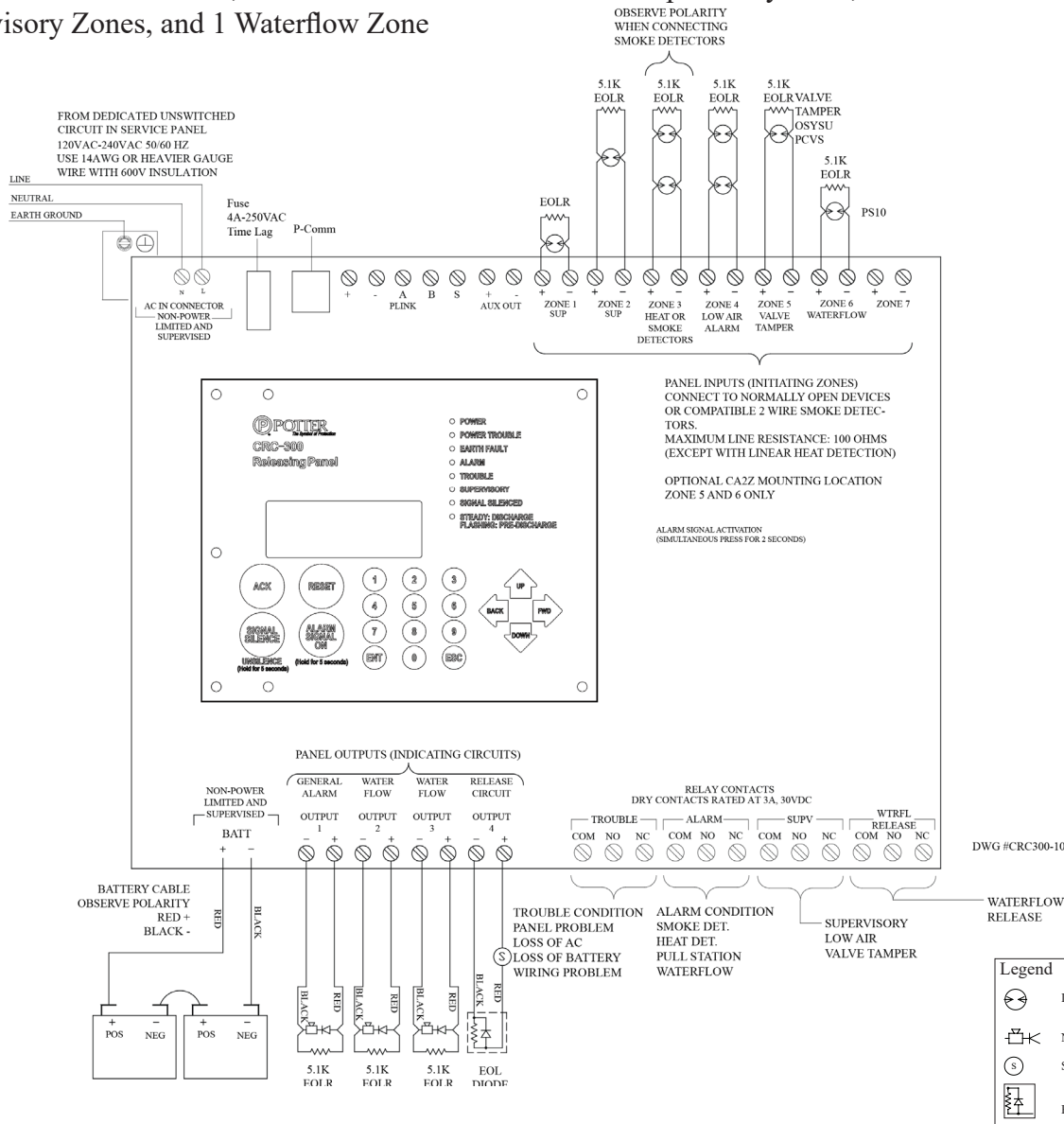
Inputs: 2 supervisory zones, 1 detection zone, 1 low air supervisory zone, 1 waterflow zone, 1 manual release zone.

Outputs: 1 general alarm, 1 supervisory, 1 waterflow, 1 solenoid release circuit

Operation: Activation of Detection Input #3 and Low Air Supervisory (same as Low Air Supervisory, but can be Cross-zone) Input #4 at the same time or Manual Release Input #6 will operate Release Output #4 and Alarm Output #1.
Activation of Waterflow Input #5 will operate Alarm Output #2.
Activation of either Supervisory Input #1 or #2 or Low Air Supervisory Input #4 is a Supervisory Event and will operate Supervisory Output #3 and the Supervisory Relay, but not the Alarm Relay.

Wiring Diagram Program #10

Single Hazard Cross-Zoned, 1 Detection Zone with Low Air Supervisory Zone,
3 Supervisory Zones, and 1 Waterflow Zone



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information.
10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #10 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 10 to change to program 10. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard Cross-Zoned, 1 Detection Zone with Low Air Supervisory Zone, 3 Supervisory Zones, and 1 Waterflow Zone	PROGRAM #10							
	CONVENTIONAL INPUT ZONES							Software Zones
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory	Supervisory	Detection	Low Air Supervisory	Valve Tamper	Waterflow	Unused	Release Zone Type
#1 ALARM INDICATING			X					X
#2 ALARM INDICATING						X		
#3 ALARM INDICATING						X		
#4 RELEASE			XX	XX		X		XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

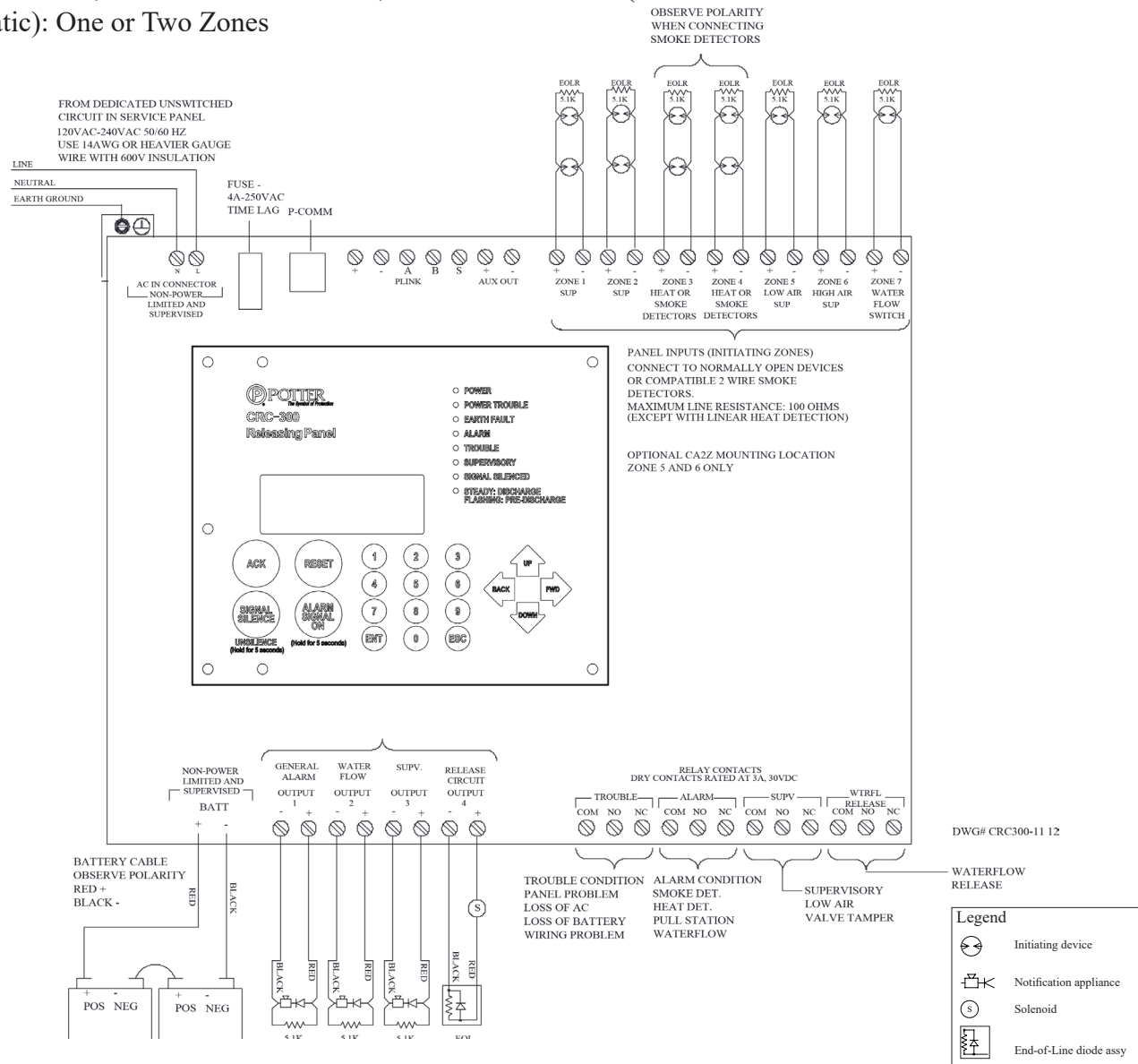
Description: Single Hazard, detection and low air supervisory zones cross-zoned**. Also 1 waterflow, 1 tamper and 1 supervisory zone

Inputs: 2 supervisory zones, 1 detection zone, 1 low air supervisory zone, 1 tamper switch zone, 1 waterflow zone.

Outputs: 1 general alarm, 2 waterflow, 1 solenoid release circuit.

Operation: Activation of Detection Input #3 and Low Air Supervisory (same as Low Air Supervisory, but can be Cross-zone) Input #4 at the same time will operate Release Output #4 and Alarm Output #1.
Activation of Waterflow Input #6 will operate Alarm Outputs #1, #2 and #3.
Activation of Low Air Supervisory Input #4 is a Supervisory Event and will operate the Supervisory Relay, but not the Alarm Relay.

Wiring Diagram Program #11

Single Interlock, Non-Interlock Preaction, or Double Interlock (Electric/
Pneumatic): One or Two Zones

DWG# CRC300-11 12

NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information
10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #11 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 11 to change to program 11. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Interlock, Non-Interlock Preaction, or Double Interlock (Electric/Pneumatic): One or Two Zones	PROGRAM #11						
	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Supervisory (Valves)	Supervisory (Solenoid)	Detection	Detection	Low Air Supervisory	High Air Supervisory	Waterflow
#1 ALARM INDICATING			X	X(OPT)			
#2 ALARM INDICATING							X
#3 SUPERVISORY	X	X			X	X	
#4 RELEASE			X	X(OPT)			

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

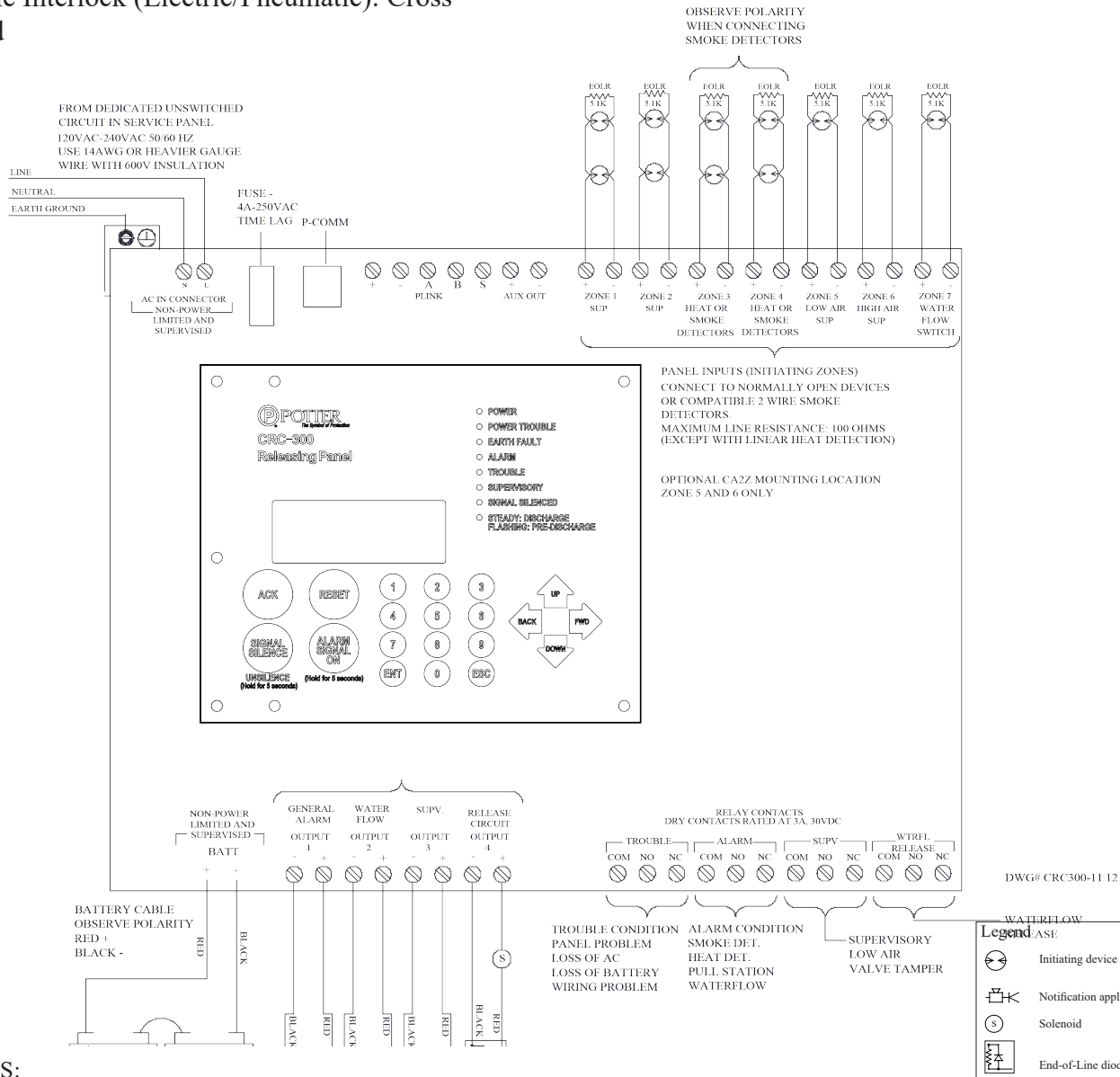
Description: Single Hazard, detection and low air supervisory zones cross-zoned**. Also 1 waterflow and 1 manual release zone. Manual release overrides cross zoning.

Inputs: 2 supervisory zones, 2 detection zone, 1 low air supervisory zone, 1 high air supervisory zone 1 waterflow zone.

Outputs: 1 general alarm, 1 supervisory, 1 solenoid release circuit

Operation: Activation of Supervisory Input #1 or #2 will operate Supervisory Output #3.
 Activation of Low Air Supervisory Input #5 or High Air Supervisory Input #6 will operate Supervisory Output #3.
 Independent activation of EITHER Detection Input #3 or #4 (if used) will operate Alarm Output #1 and Release Output #4.
 Activation of Waterflow Input #7 will operate Alarm Output #2.

Wiring Diagram Program #12 Single Interlock, Non-Interlock Preaction, or Double Interlock (Electric/Pneumatic): Cross Zoned



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #12 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 12 to change to program 12. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

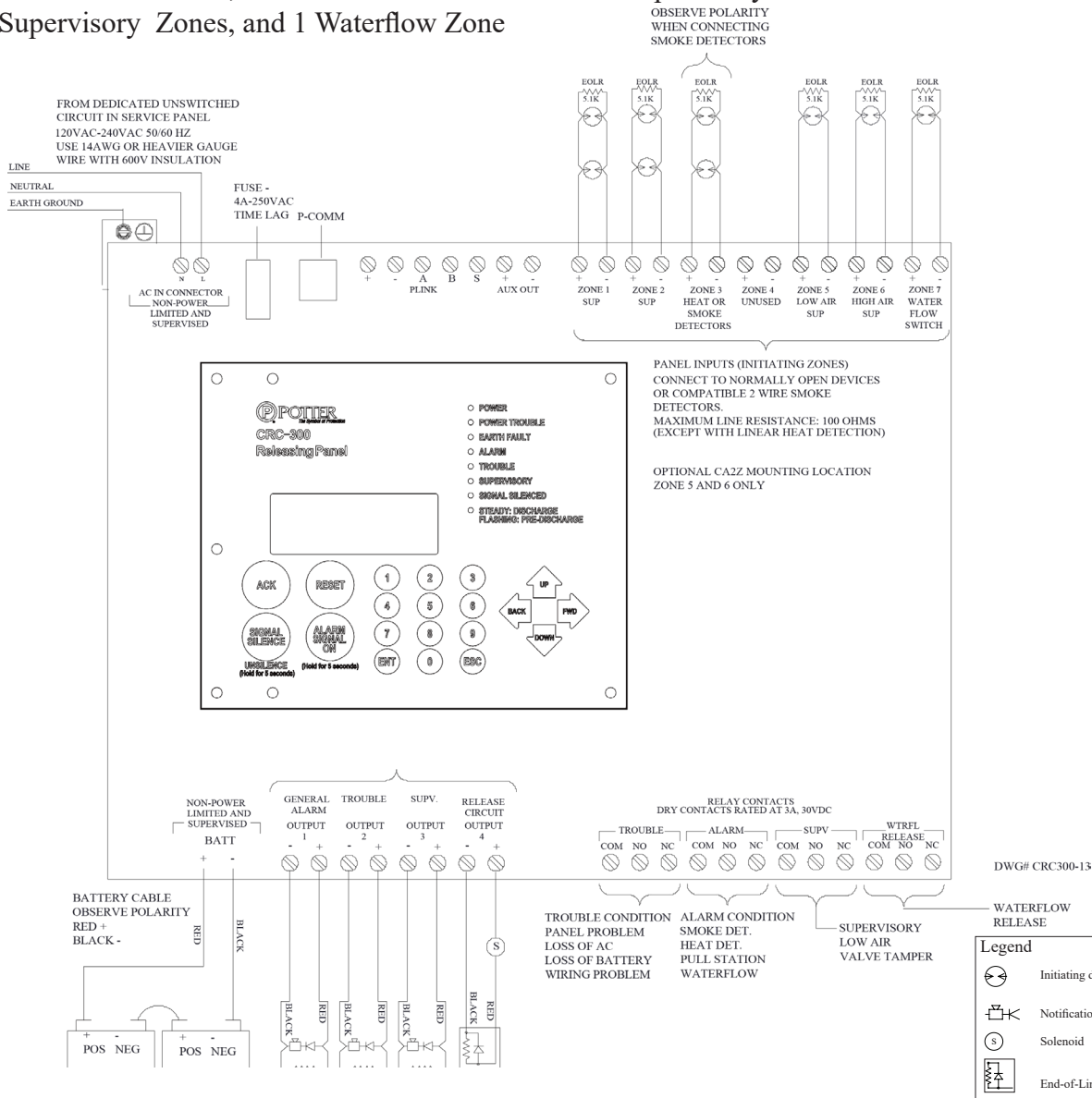
Single Interlock, Non-Interlock Preaction, or Double Interlock (Electric/Pneumatic): One or Two Zones	PROGRAM #12							Software Zone
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory (Valves)	Supervisory (Solenoid)	Detection	Detection	Low Air Supervisory	High Air Supervisory	Waterflow	Release Zone Type
#1 ALARM INDICATING			X	X				X
#2 ALARM INDICATING							X	
#3 SUPERVISORY	X	X			X	X		
#4 RELEASE			XX	XX				XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Single Hazard, 2 detection zones, 1 waterflow, and 3 supervisory zones.
 Inputs: 2 supervisory zones, 2 detection zone, 1 low air supervisory zone, 1 high air supervisory zone 1 waterflow zone.
 Outputs: 2 general alarm, 1 solenoid release circuit
 Operation: Activation of Supervisory Input #1 or #2 will operate Supervisory Output #3.
 Independent activation of EITHER Detection Input #3 or #4 will operate Alarm Output #1.
 Simultaneous activation of BOTH Detection Input #3 AND #4 will operate Release Output #4.
 Activation of Waterflow Input #7 will operate Alarm Output #2.

Wiring Diagram Program #13

Single Hazard Cross-Zoned, 1 Detection Zone with Low Air Supervisory Zone, 3 Supervisory Zones, and 1 Waterflow Zone



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information
10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #13 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 13 to change to program 13. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard Cross-Zoned, 1 Detection Zone with Low Air Supervisory Zone, 3 Supervisory Zones and 1 Waterflow Zone	PROGRAM #13							
	CONVENTIONAL INPUT ZONES							Software Zones
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory (Valves)	Supervisory (Solenoid)	Detection	Unused	Low Air Supervisory	High Air Supervisory	Waterflow	Trouble Zone Type
#1 ALARM INDICATING			X				X	
#2 TROUBLE								X*
#3 SUPERVISORY	X	X			X	X		
#4 RELEASE			X					

* Trouble Output uses a Software Trouble Zone Type in order to work properly.

Description: Single Hazard, detection and low air supervisory zones cross-zoned**. Also 1 waterflow, 1 tamper and 1 supervisory zone

Inputs: 2 supervisory zones, 1 detection zone, 1 low air supervisory zone, 1 high air supervisory zone, 1 waterflow zone,

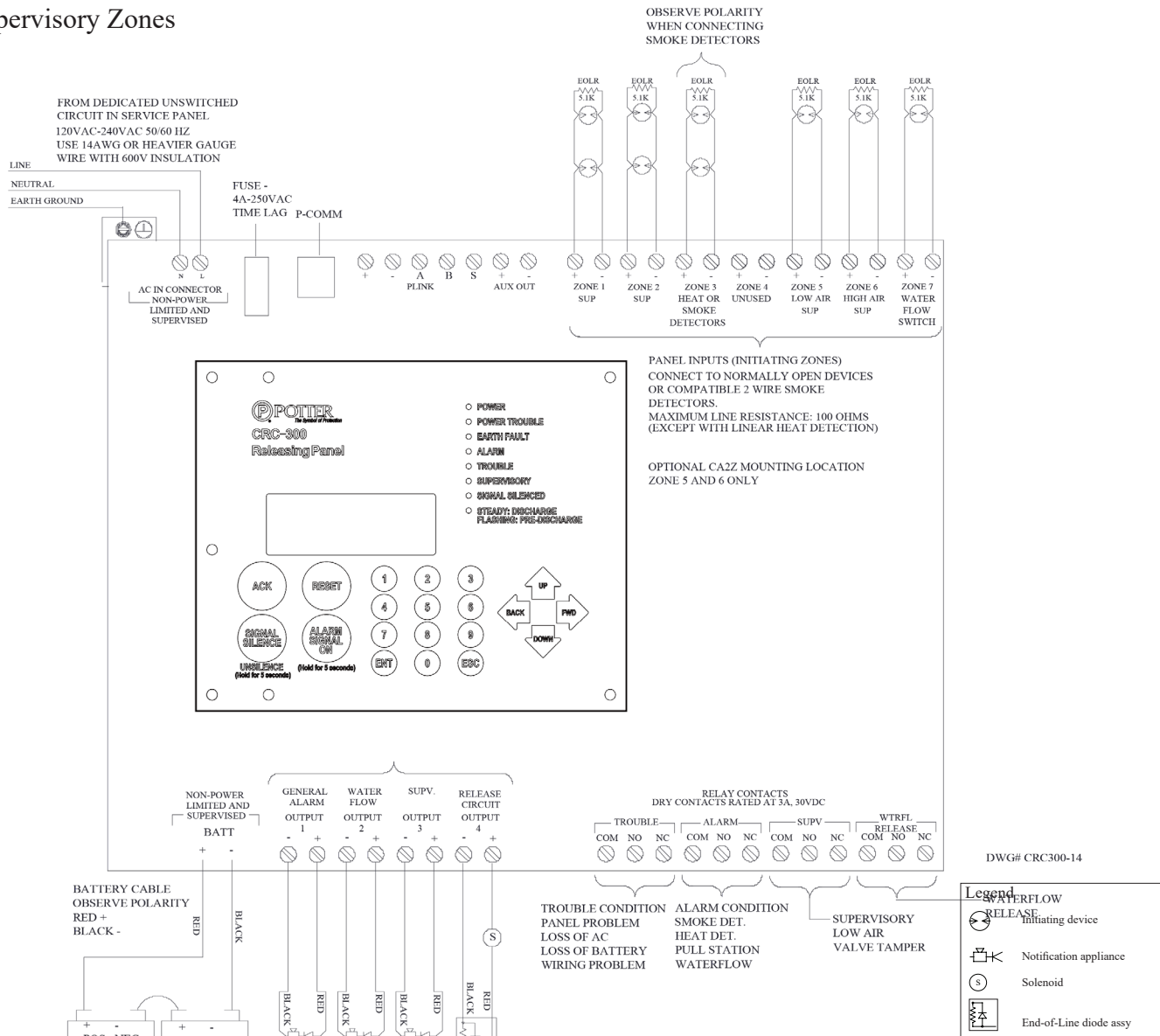
Outputs: 1 general alarm, 1 trouble, 1 supervisory, 1 solenoid release circuit

Operation: Activation of Supervisory Input #1 or #2 will operate Supervisory Output #3.
 Activation of Low Air Supervisory Input #5 or High Air Supervisory Input #6 will operate Supervisory Output #3.
 Activation of Detection Input #3 will operate Alarm Output #1 and Release Output #4.
 Activation of Waterflow Input #7 will operate Alarm Output #1.
 Activation of any Trouble Condition with the panel will operate Trouble Output #2.

Wiring Diagram Program #14

4 Alarm Zones and 4 Release Circuits mapped 1 to 1.

2 Supervisory Zones



NOTES:

- Connect only UL Listed 24VDC devices to indicating circuits.
- Connect EOL Diode assembly IN SERIES with solenoid on release circuit
- Install EOLR (provided) on all unused circuits.
- Polarity is shown on indicating circuits in an activated (off-normal) condition.
- Polarity reverses when output is activated.
- Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
- Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
- All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
- Refer to Appendix A for test and maintenance information
- Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #14 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 14 to change to program 14. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

4 Alarm Zone and 4 Release Circuits mapped 1 to 1, 2 Supervisory Zones	PROGRAM #14							Software Zone
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory (Valves)	Supervisory (Solenoid)	Detection	Unused	Low Air Supervisory	High Air Supervisory	Waterflow	Release Zone Type
#1 ALARM INDICATING			X					X
#2 ALARM INDICATING							X	
#3 SUPERVISORY	X	X			X	X		
#4 RELEASE			XX		XX			XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: QRS System 4 Manual Station zones and 4 Release Outputs mapped 1 to 1

Inputs: 4 Manual Station zones, 2 Supervisory zones

Outputs: 2 general alarm, 1 supervisory, 1 solenoid release circuits

Operation: Activation of Supervisory Input #1 or #2 will operate Supervisory Output #3.
 Independent activation of Low Air Supervisory Input #5 or activation of High Air Supervisory Input #6 will operate Supervisory Output #3.
 Activation of Detection Input #3 will operate Alarm Output #1.
 Activation of Low Air Supervisory is a Supervisory Event and will operate Supervisory Output #3 and the Supervisory Relay, not the Alarm Relay.
 Simultaneous activation of BOTH Detection Input #3 AND Low Air Supervisory (same as Low Air Supervisory, but can be Cross-zone) Input #5 will operate Release Output #4.
 Activation of Waterflow Input #7 will operate Alarm Output #2.

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Program #15 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 15 to change to program 15. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Dual Hazard, 1 Detection Zone and 1 Low Air Supervisory Zone Cross-Zoned to 1 Release Circuit, 1 other Detection and 1 other Low Air Supervisory Zone Cross-Zoned to a Separate Release Circuit and Supervisory Zone.	PROGRAM #15						
	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Supervisory (Valves)	Supervisory (Solenoid)	Detection	Detection	Unused	Unused	Waterflow
#1 ALARM INDICATING			X	X(OPT)			
#2 ALARM INDICATING							X
#3 SUPERVISORY	X	X					
#4 RELEASE			X	X(OPT)			

* Release Outputs which are Cross-Zoned need a Software Zone in order to work properly. The Software Zone Number will be displayed upon a release.

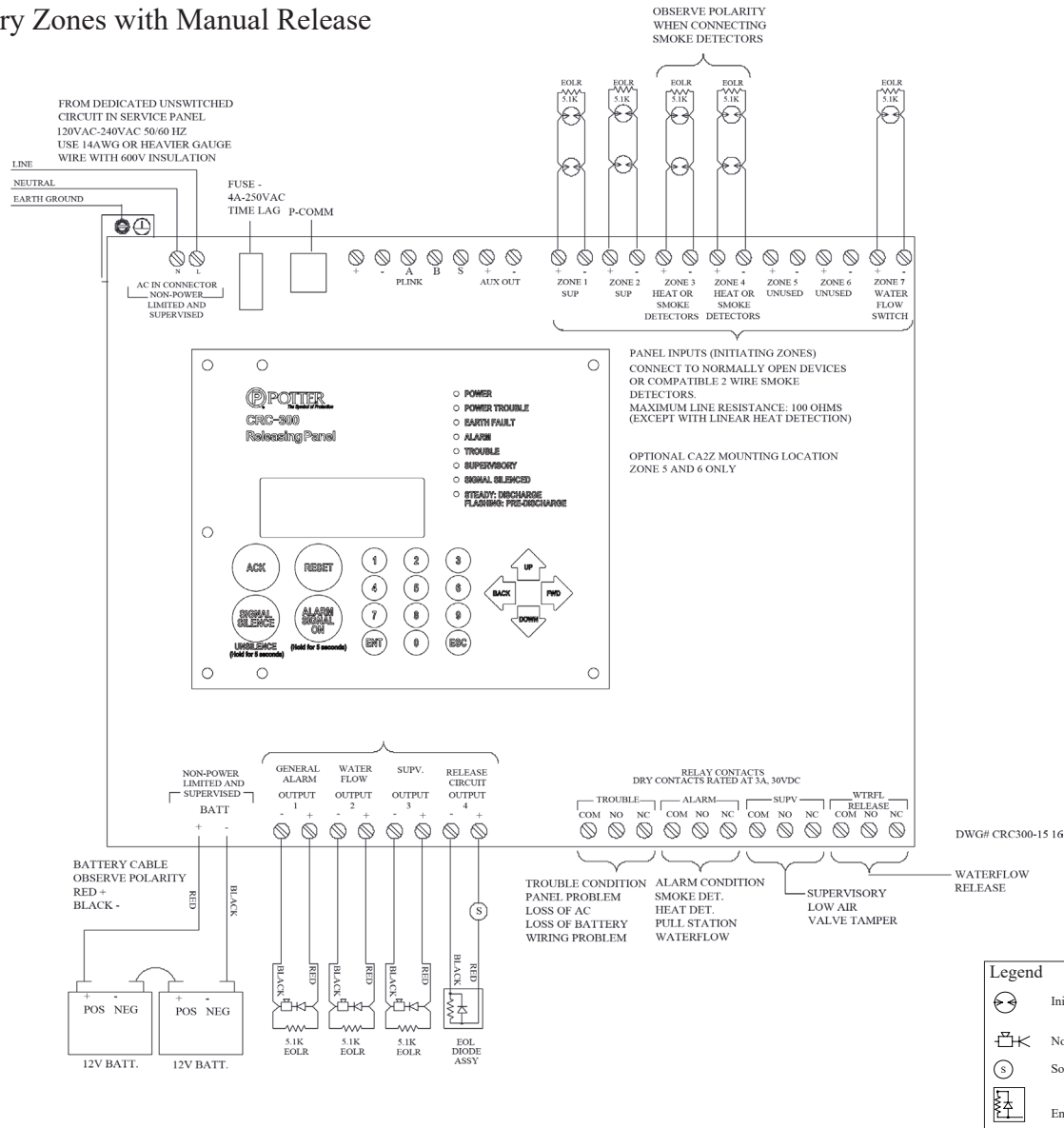
Description: Dual Hazard, 2 detection zones cross-zoned** to 1 release circuit and 2 other detection zones cross zoned to another release circuit

Inputs: 2 supervisory zones, 4 detection zones

Outputs: 2 general alarm, 1 supervisory, 1 solenoid release circuits

Operation: Activation of Supervisory Input #1 or #2 will operate Supervisory Output #3.
Independent activation of EITHER Detection Input #3 or #4 (if used) will operate Alarm Output #1 and Release Output #4.
Activation of Waterflow Input #7 will operate Alarm Output #2.

Wiring Diagram Program #16 Failsafe Single Hazard, -2 Alarm Zones, 1 Waterflow Zone, 2 Supervisory Zones with Manual Release



NOTES:

- Connect only UL Listed 24VDC devices to indicating circuits.
- Connect EOL Diode assembly IN SERIES with solenoid on release circuit
- Install EOLR (provided) on all unused circuits.
- Polarity is shown on indicating circuits in an activated (off-normal) condition.
- Polarity reverses when output is activated.
- Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
- Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
- All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
- Refer to Appendix A for test and maintenance information
- Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #16 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 16 to change to program 16. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Dual Hazard, 1 Detection Zone and 1 Low Air Supervisory Zone Cross-Zoned to 1 Release Circuit, 1 other Detection and 1 other Low Air Supervisory Zone Cross-Zoned to a Separate Release Circuit and Supervisory Zone.	PROGRAM #16							Software Zone
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Supervisory (Valves)	Supervisory (Solenoid)	Detection	Detection	Unused	Unused	Waterflow	Release Zone Type
#1 ALARM INDICATING			X	X				X
#2 ALARM INDICATING							X	
#3 SUPERVISORY	X	X						
#4 RELEASE			XX	XX				XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Failsafe Single Zoned activation with Normally Open and Normally Closed Solenoid

Inputs: 2 Supervisory zones, 2 Conventional detection zones, 1 Low Air Supervisory zone, 1 Waterflow zone, 1 Manual release zone,

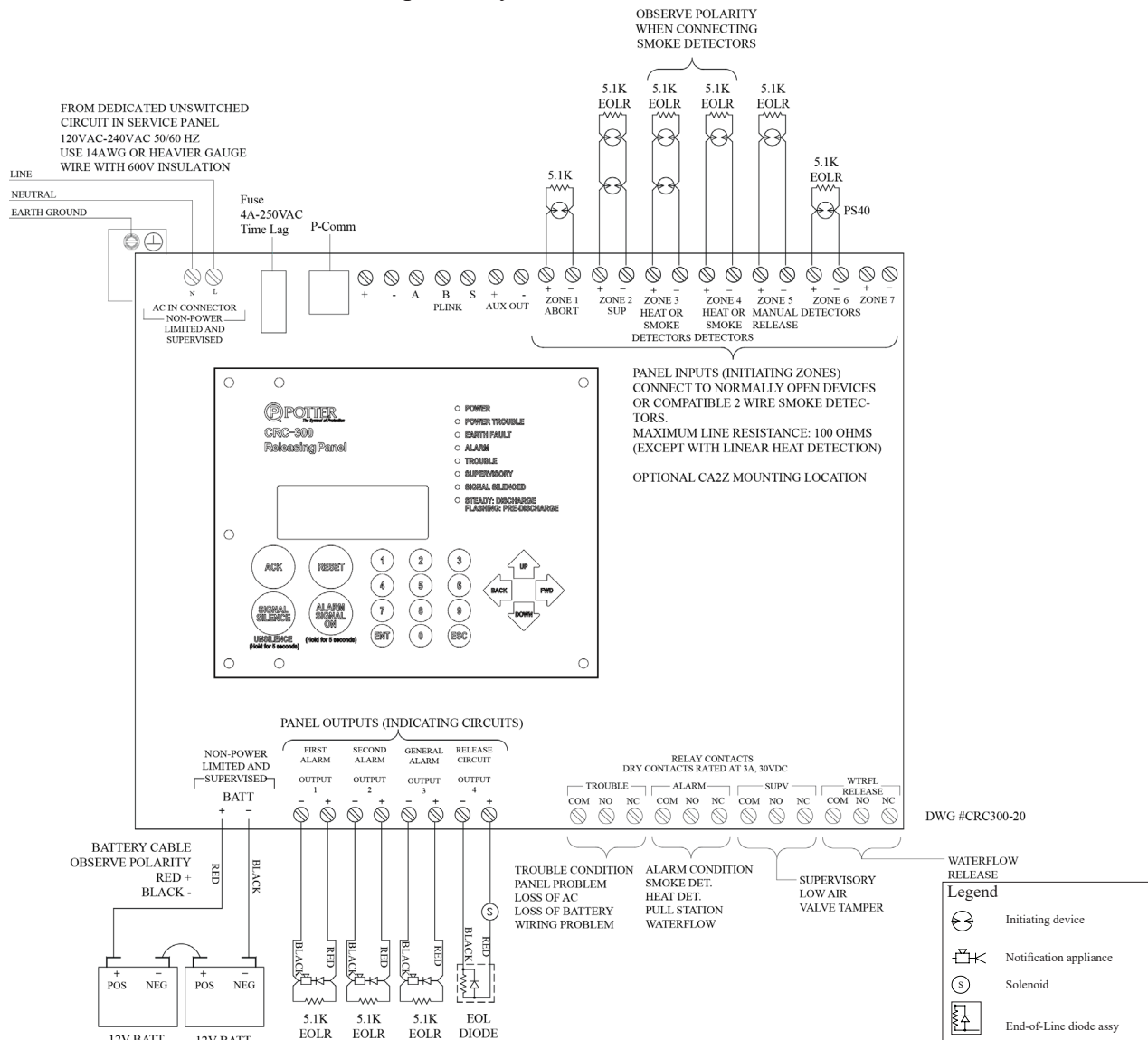
Outputs: 2 general alarm, 1 supervisory, 1 solenoid release circuits.

Operation: Activation of Supervisory Input #1 or #2 will operate Supervisory Output #3.
 Independent activation of EITHER Detection Input #3 or #4 will operate Alarm Output #1.
 Simultaneous activation of BOTH Detection Input #3 AND #4 will operate and Release Output #4.
 Activation of Waterflow Input #7 will operate Alarm Output #2.

Wiring Diagram Program #20

Single Hazard, 2 Detection Zones Cross-zoned to

1 Release Circuit, 1 Manual Station and 1 Supervisory Zone, 1 Abort Circuit



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information
10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #20 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 20 to change to program 20. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Detection Zones Cross-zoned to 1 Release Circuit, 1 Manual Station and 1 Supervisory Zone, 1 Abort Circuit	PROGRAM #20							
	CONVENTIONAL INPUT ZONES							Software Zone
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Abort	Supervisory	Detection	Detection	Manual Release	Detectors	Unused	Release Zone Type
#1 1st ALARM			x	x				
#2 2nd ALARM			xx	xx	x			XX*
#3 GENERAL ALARM						x		
#4 RELEASE			xx	xx	x			XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Single Hazard, 2 detection zones cross-zoned to 1 release circuit. A manual station zone and a discharge confirmation zone. Also first and second alarm notification circuits.

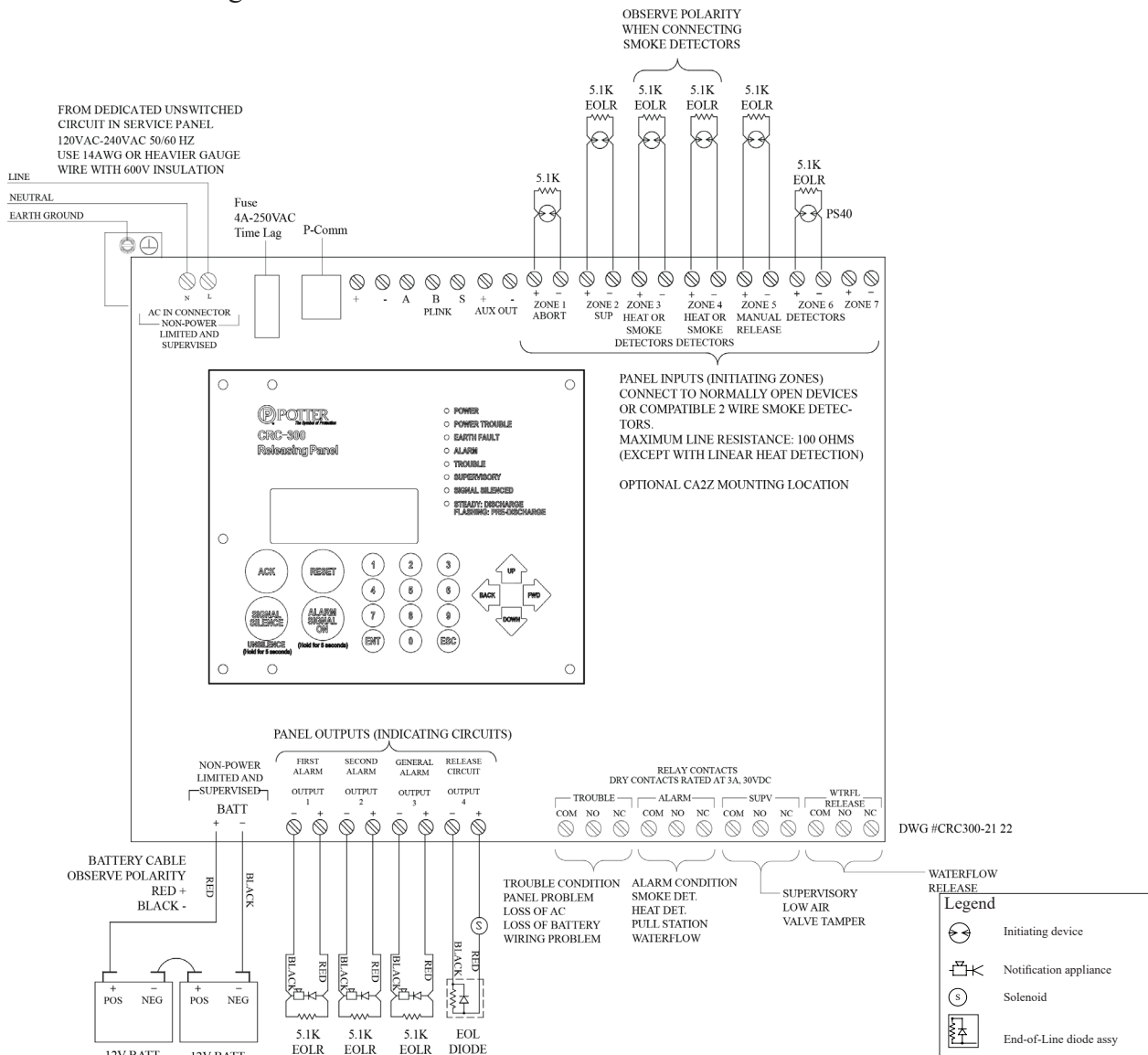
Inputs: 1 supervisory zone, 3 detection zones, 1 manual station zone, 1 abort circuit

Outputs: 3 general alarm, 1 release circuit

Operation: Activation of EITHER Detection Input #3 or #4 will activate Alarm Output #1.
 Activation of BOTH Detection Inputs #3 and #4 at the same time will activate Alarm Outputs #1, #2 and start the Predischage Timer for Release Output #4.
 Activation of Manual Release Input #5 will activate Alarm Output #2 and start the Manual Release Predischage Timer for Release Output #4.
 Activation of Detection Input #6 will operate Alarm Indicating Output #3.

Wiring Diagram Program #21

Single Hazard, 2 Detection Zones Cross-zoned to 1 Release Circuit, 1
Manual Station and A Discharge Confirmation Zone



NOTES:

- Connect only UL Listed 24VDC devices to indicating circuits.
- Connect EOL Diode assembly IN SERIES with solenoid on release circuit
- Install EOLR (provided) on all unused circuits.
- Polarity is shown on indicating circuits in an activated (off-normal) condition.
- Polarity reverses when output is activated.
- Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
- Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
- All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
- Refer to Appendix A for test and maintenance information
- Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #21 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 21 to change to program 21. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Detection Zones Cross-zoned to 1Release Circuit, 1 Manual Station and A Discharge Confirmation Zone	PROGRAM #21							Software zones
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Detectors	Unused	Release Zone Type
#1 1st ALARM			X	X				
#2 2nd ALARM			XX	XX	X			XX*
#3 GENERAL ALARM			X	X	X	X		
#4 RELEASE			XX	XX	X			XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

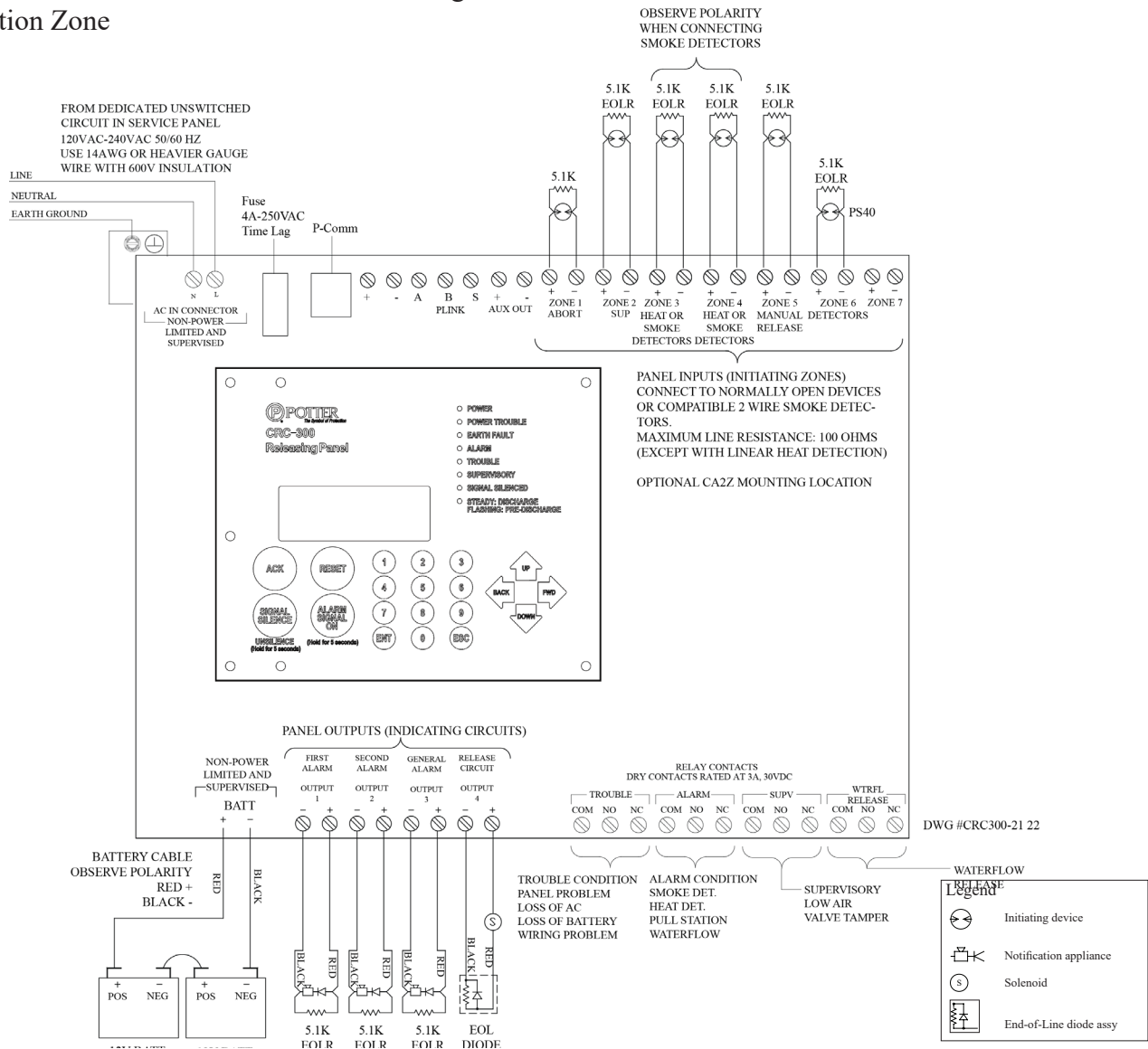
Description: Single Hazard, 2 detection zones cross-zoned to 1 release circuit. A manual station zone and a discharge confirmation zone. Also first and second alarm notification circuits.

Inputs: 1 supervisory zone, 3 detection zones, 1 manual station zone, 1 abort circuit

Outputs: 3 general alarm, 1 release circuit

Operation: Activation of EITHER Detection Input #3 or #4 will activate Alarm Output #1 and #3.
Activation of BOTH Detection Inputs #3 and #4 at the same time will activate Alarm Outputs #1, #2, #3 and start the Predischage Timer for Release Output #4.
Activation of Manual Release Input #5 will activate Alarm Output #2 and #3 and start the Manual Release Predischage Timer for Release Output #4.
Activation of Detection Input #6 will operate Alarm Indicating Output #3.

Wiring Diagram Program #22 Single Hazard, 2 Detection Zones Cross-zoned to 1 Release Circuit, 1 Manual Station and A Discharge Confirmation Zone



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #22 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 22 to change to program 22. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Detection Zones Cross-zoned to 1 Release Circuit, 1 Manual Station and A Discharge Confirmation Zone	PROGRAM #22							Software zones
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Detectors	Unused	Release Zone Type
#1 1st ALARM			X	X				
#2 2nd ALARM			XX	XX	X			XX*
#3 GENERAL ALARM						X		
#4 RELEASE			XX	XX	X			XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

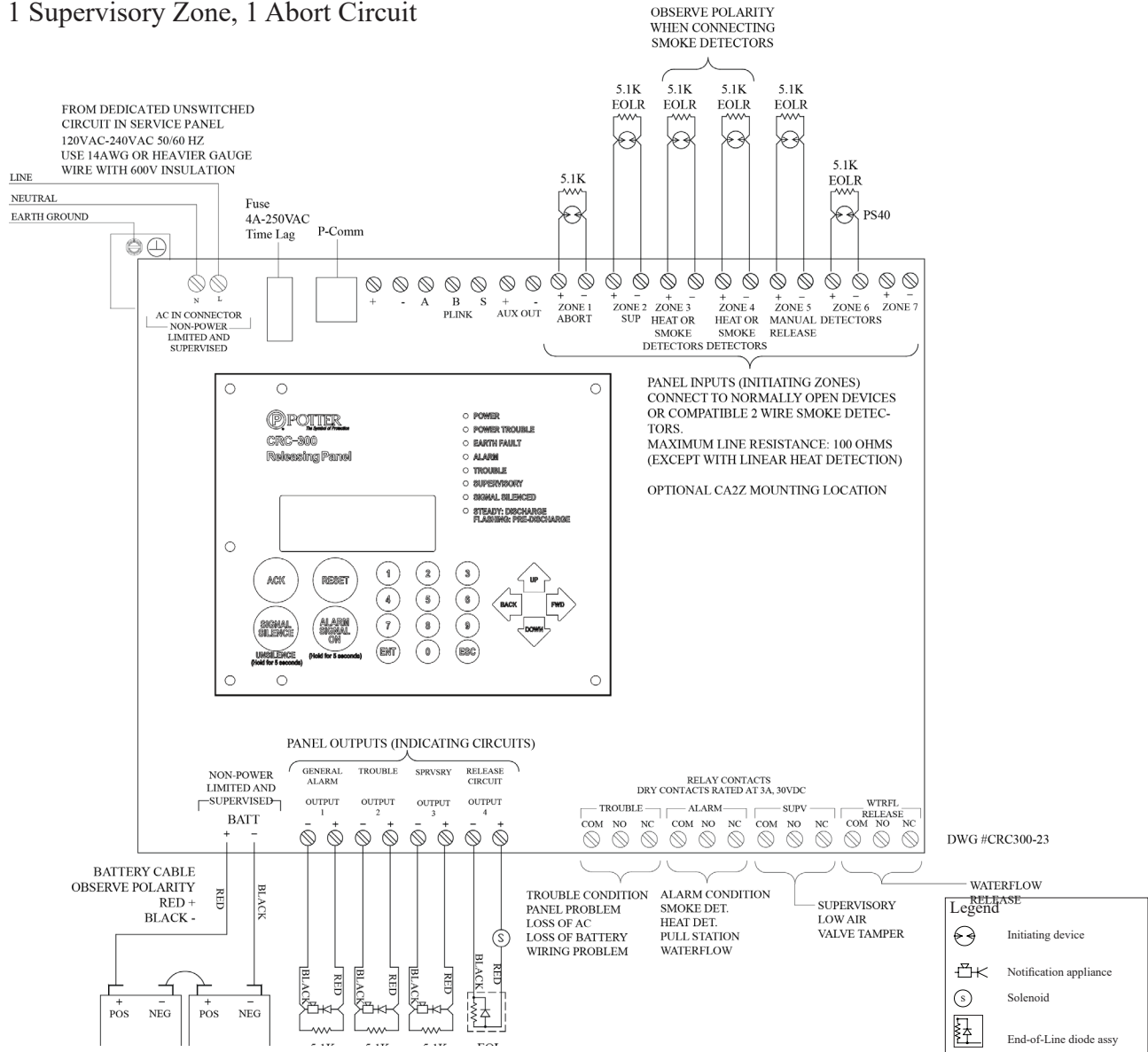
Description: SSingle Hazard, 2 detection zones cross-zoned to 1 release circuit. A manual station zone and a discharge confirmation zone. Also first and second alarm notification circuits.

Inputs: 1 supervisory zone, 3 detection zones, 1 manual station zone, 1 abort circuit

Outputs: 3 general alarm, 1 release circuit

Operation: Activation of EITHER Detection Input #3 or #4 will activate Alarm Output #1.
Activation of BOTH Detection Inputs #3 and #4 at the same time will activate Alarm Outputs #1, #2 and start the Predischage Timer for Release Output #4.
Activation of Manual Release Input #5 will activate Alarm Output #2 and start the Manual Release Predischage Timer for Release Output #4.
Activation of Detection Input #6 will operate Alarm Indicating Output #3.

Wiring Diagram Program #23 Single Hazard, 4 Detection Zones Mapped to 1 Release Circuit, 1 Supervisory Zone, 1 Abort Circuit



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information
10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #23 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 23 to change to program 23. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 4 Detection Zones Mapped to 1 Release Circuit, 1 Supervisory Zone, 1 Abort Circuit	PROGRAM #23							Software Zone
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Detectors	Unused	Trouble Zone Type
#1 ALARM INDICATING			X	X	X	X		
#2 TROUBLE								X*
#3 SUPERVISORY		X						
#4 RELEASE			X	X	X	X		

* Trouble Output uses a Software Trouble Zone Type in order to work properly.

Description: Single Hazard, 4 detection zones mapped to 1 release

Inputs: 1 supervisory zone, 4 detection zones, 1 abort circuit

Outputs: 1 general alarm, 1 trouble, 1 supervisory, 1 release circuit

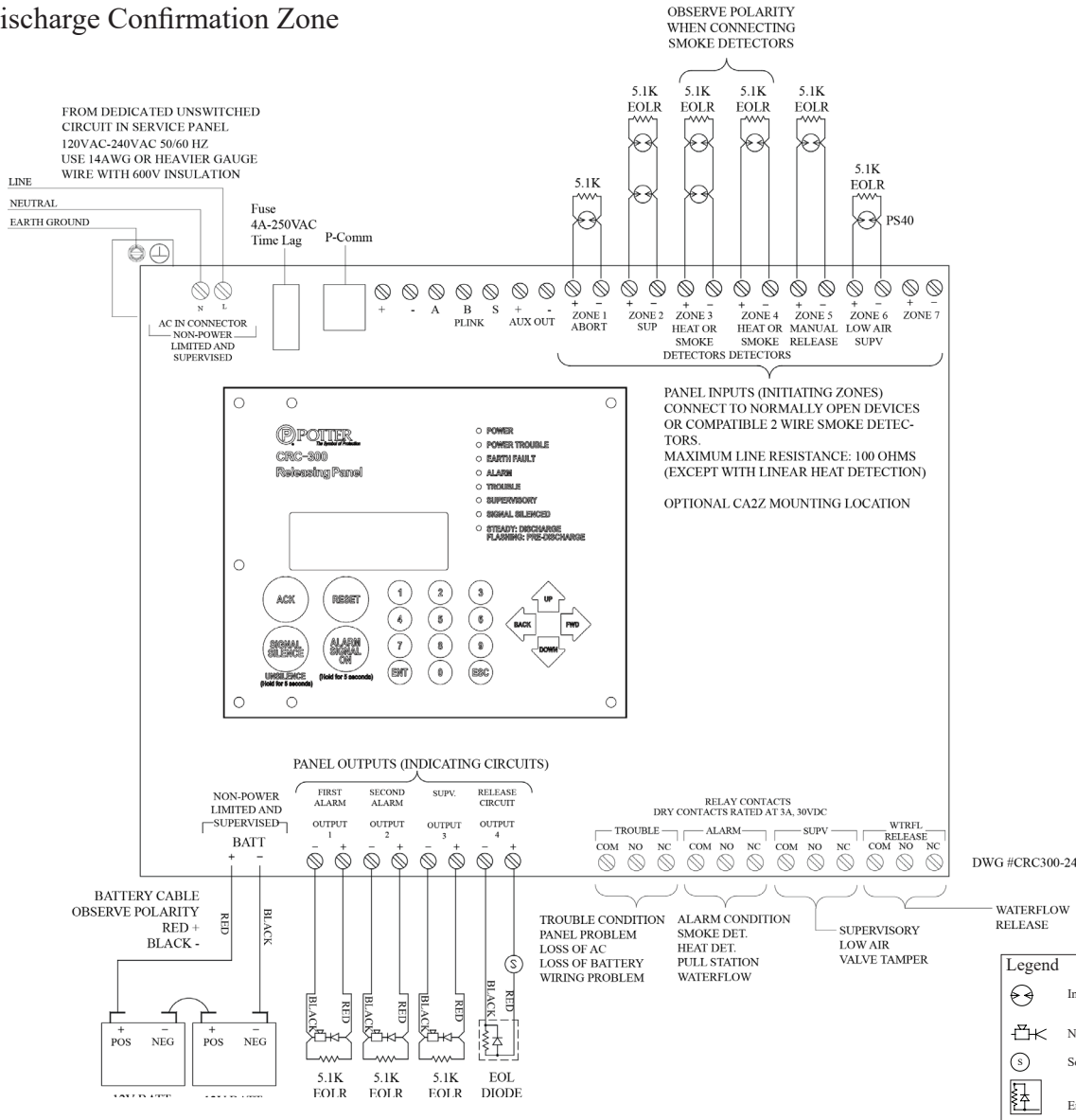
Operation: Activation of Supervisory Input #2 will operate Supervisory Output #3.

Activation of Smoke Detection Input #3, Heat Detection Input #4, Detection Input #6 will operate Alarm Output #1 and start the PredischARGE Timer for Release Output #4.

Activation of Manual Release Input #5 will activate Alarm Output #1 and start the Manual Release PredischARGE Timer for Release Output #4.

Activation of any Trouble Condition with the panel will operate Trouble Output #2.

Wiring Diagram Program #24 Single Hazard, 2 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information
10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #24 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 1 to change to program 1. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone	PROGRAM #24						
	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Low Air Supervisory	Unused
#1 ALARM INDICATING			X	X			
#2 ALARM INDICATING					X		
#3 SUPERVISORY		X				X	
#4 RELEASE			X	X	X		

Description: Single Hazard, 2 detection zones, a manual station zone and a discharge confirmation zone.

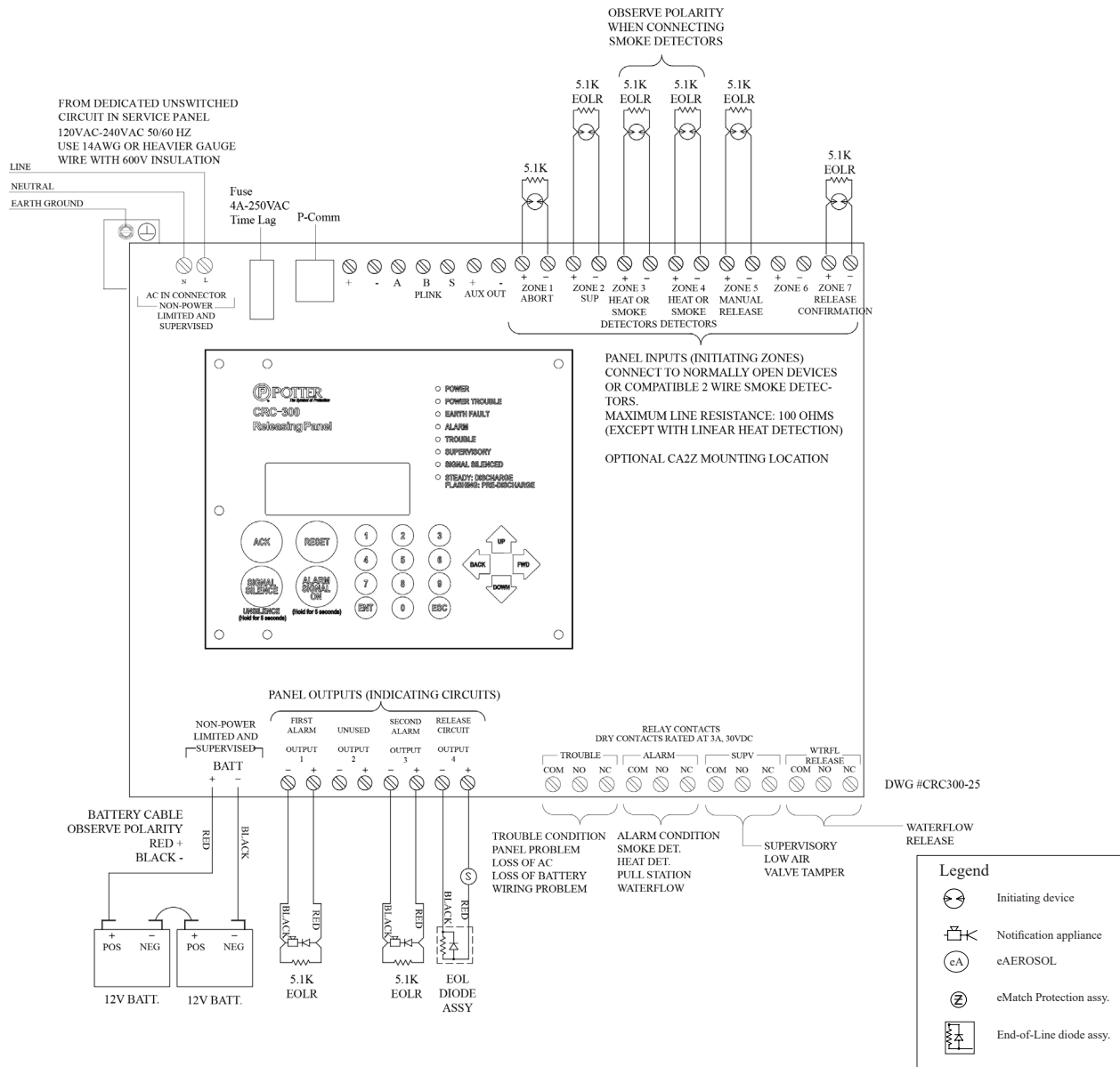
Inputs: 1 supervisory zone, 2 detection zones, 1 manual station zone, 1 abort circuit

Outputs: 2 general alarm, 1 release circuit, 1 supervisory

Operation: Activation of Supervisory Input #2 or Low Air Supervisory Input #6 will operate Supervisory Output #3.
 Activation of Smoke Detection Input #3 or Heat Detection Input #4 will operate Alarm Output #1 and start the Predischage Timer for Release Output #4.
 Activation of Manual Release Input #5 will activate Alarm Output #2 and start the Manual Release Predischage Timer for Release Output #4.

Wiring Diagram Program #25

Single Hazard, 2 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #25 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 30 to change to program 30. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone	PROGRAM #25							Software zones
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Unused	Release Confirmation	Release Zone Type
#1 ALARM INDICATING			XX	XX	X			XX*
#2 UNUSED								
#3 ALARM INDICATING			X	X	X		X	
#4 RELEASE			XX	XX	X			XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

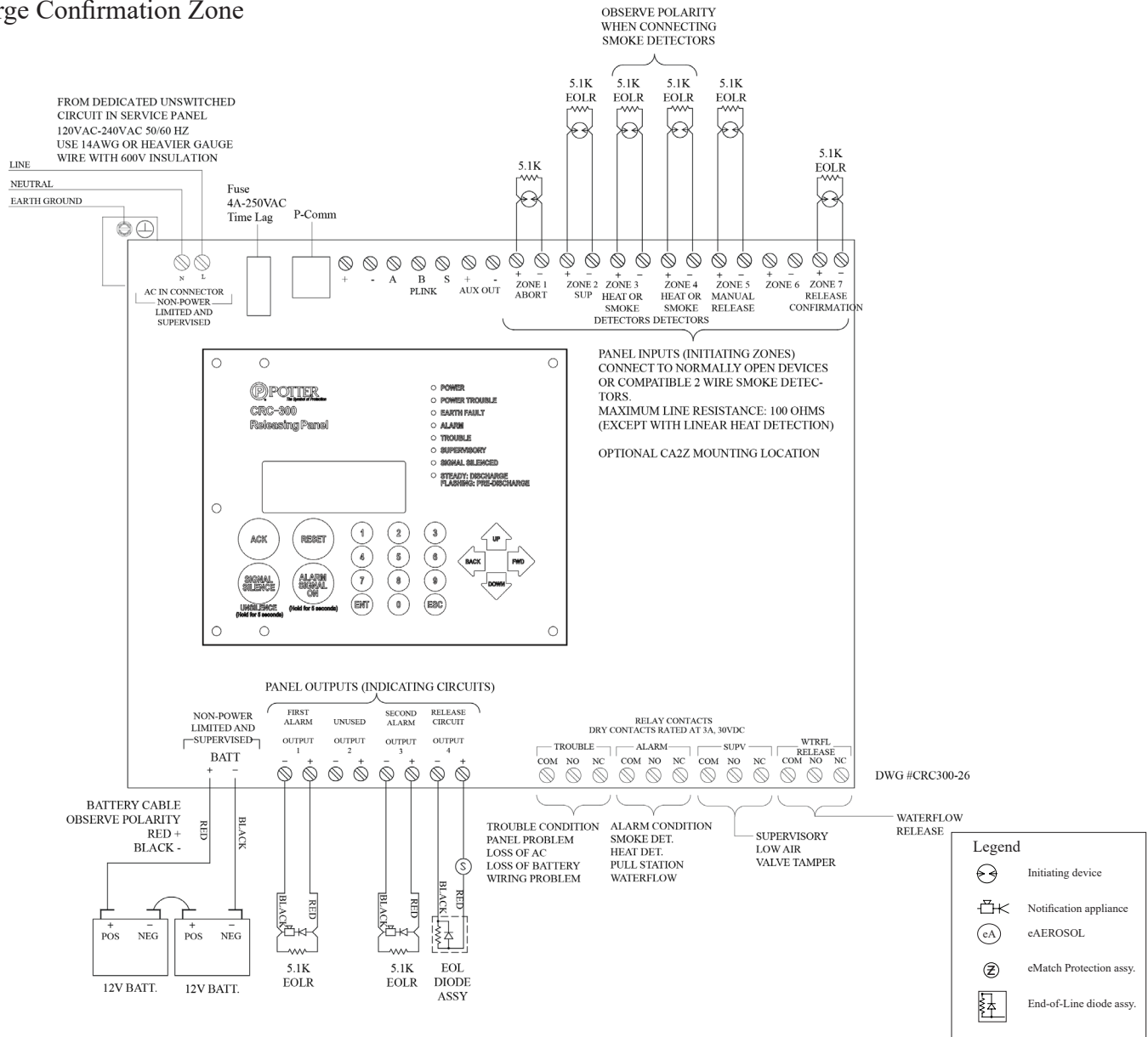
Description: Single Hazard, 2 detection zones, a manual station zone and a discharge confirmation zone.

Inputs: 1 supervisory zone, 2 detection zones, 1 manual station zone, 1 abort circuit

Outputs: 2 general alarm, 1 release circuit

Operation: Activation of EITHER Detection Input #3 or #4 will activate Alarm Output #3.
 Activation of BOTH Detection Inputs #3 and #4 at the same time will activate Alarm Output #1 and #3 and start the Predischage Timer for Release Output #4.
 Activation of Manual Release Input #5 will activate Alarm Outputs #1 and #3 and start the Manual Release Discharge Timer for Release Output #4.
 Activation of Release Confirmation Input #7 will operate Alarm Output #3 and the RELEASING Relay.

Wiring Diagram Program #26

Single Hazard, 2 Detection Zones 1 Manual Station Zone and
A Discharge Confirmation Zone

NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #26 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 31 to change to program 31. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 2 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone	PROGRAM #26						
	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Unused	Release Confirmation
#1 ALARM INDICATING			X	X	X		
#2 UNUSED							
#3 ALARM INDICATING			X	X	X		X
#4 RELEASE			X	X	X		

Description: Single Hazard, 2 detection zones, a manual station zone and a discharge confirmation zone.
Inputs: 1 supervisory zone, 2 detection zones, 1 manual station zone, 1 abort circuit.
Outputs: 2 general alarm, 1 release circuit.
Operation: Activation of ANY Detection Input #3 or #4 will activate Alarm Outputs #1 and #3 and start the Predischage Timer for Release Output #4.
 Activation of Manual Release Input #5 will activate Alarm Outputs #1 and #3 and start the Manual Release Discharge Timer for Release Output #4.
 Activation of Release Confirmation Input #7 will operate Alarm Output #3 and the RELEASING Relay.



Program #27 Mode

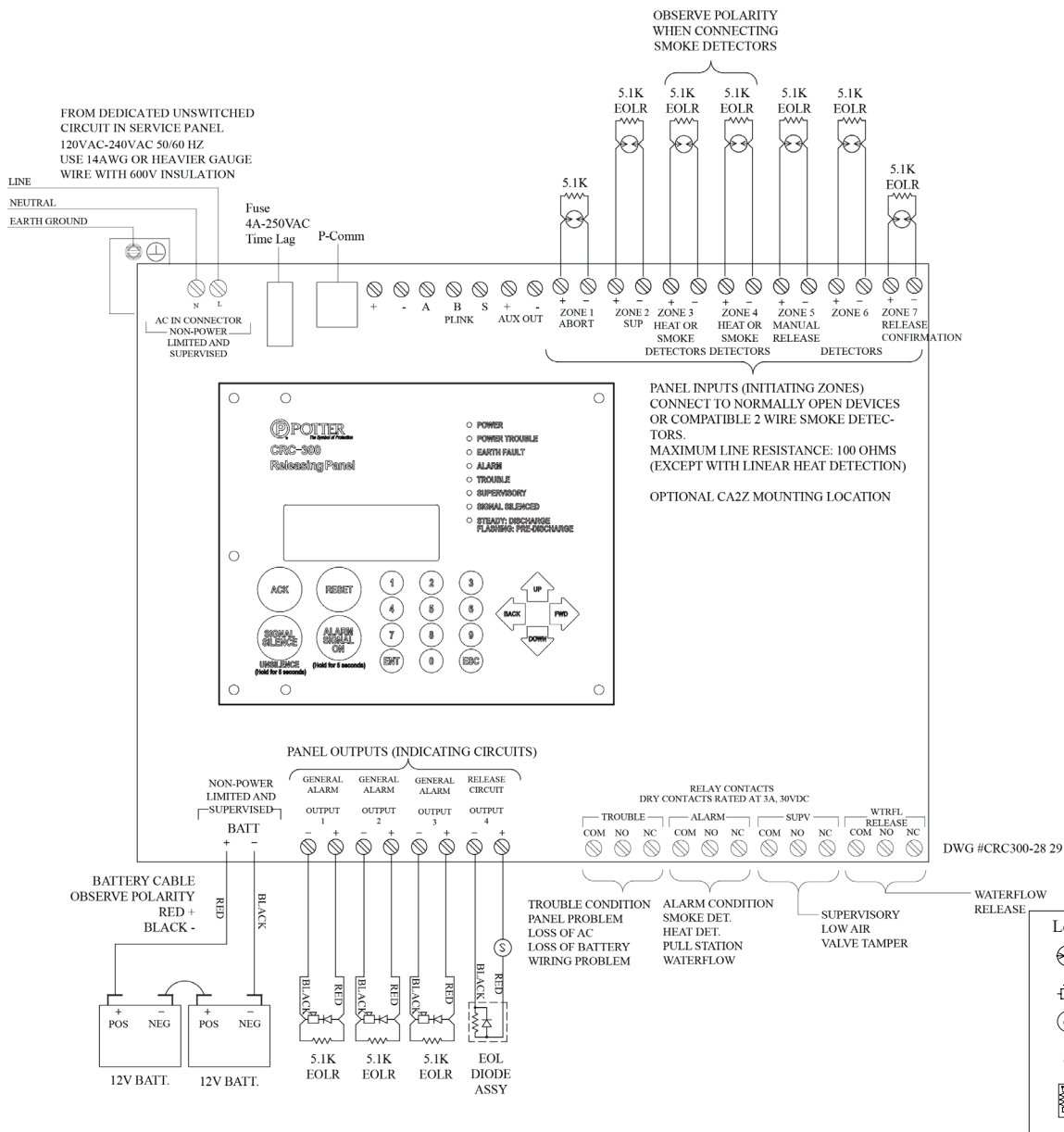
1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 32 to change to program 32. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 3 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone	PROGRAM #27						
	CONVENTIONAL INPUT ZONES						
	#1	#2	#3	#4	#5	#6	#7
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Alarm	Detectors	Release Confirmation
#1 ALARM INDICATING			X	X	X	X	
#2 ALARM INDICATING			X	X	X	X	
#3 ALARM INDICATING			X	X	X	X	X
#4 RELEASE			X	X	X	X	

Description: Single Hazard, 3 detection zones, a manual station zone and a discharge confirmation zone.
Inputs: 1 supervisory zone, 3 detection zones, 1 manual station zone, 1 abort circuit.
Outputs: 3 general alarm, 1 release circuit.
Operation: Activation of ANY Detection Input #3 or #4 or #6 will activate Alarm Outputs #1, #2 and #3 and start the Predischage Timer for Release Output #4.
 Activation of Manual Release Input #5 will activate Alarm Outputs #1, #2 and #3 and start the Manual Release Discharge Timer for Release Output #4.
 Activation of Release Confirmation Input #7 will operate Alarm Output #3 and the RELEASING Relay.

Wiring Diagram Program #28

Single Hazard, 3 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone



NOTES:

1. Connect only UL Listed 24VDC devices to indicating circuits.
2. Connect EOL Diode assembly IN SERIES with solenoid on release circuit
3. Install EOLR (provided) on all unused circuits.
4. Polarity is shown on indicating circuits in an activated (off-normal) condition.
5. Polarity reverses when output is activated.
6. Maximum current per output is 3 Amp. Maximum voltage is 33VDC.
7. Outputs identified as Release are Special Application. All other outputs are Regulated 24 VDC, Rated 3 Amp each, 3 Amp total for all 4 circuits.
8. All initiating and NAC/Release circuits are supervised and power limited. See Main Board Wiring Specifications for wire routing instructions. All frequencies are continuous.
9. Refer to Appendix A for test and maintenance information

10. Maximum resistance on outputs is 10 ohms. Maximum resistance on outputs programmed as releasing, is 1 divided by current requirements of solenoid.

See Appendix C for smoke detector compatibility data.

See Battery Calculation Worksheet for battery information.

Program #28 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 33 to change to program 33. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 3 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone	PROGRAM #28							Software zones
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Detectors	Release Confirmation	Release Zone Type
#1 ALARM INDICATING			XX	XX	X			XX*
#2 ALARM INDICATING						X		
#3 ALARM INDICATING			X	X	X		X	
#4 RELEASE			XX	XX	X			XX*

*XX = Cross-zone Release Output. Cross-zone uses a Software Zone whose number will be displayed upon release.

Description: Single Hazard, 3 detection zones, a manual station zone and a discharge confirmation zone.

Inputs: 1 supervisory zone, 3 detection zones, 1 manual station zone, 1 abort circuit.

Outputs: 3 general alarm, 1 release circuit.

Operation: Activation of EITHER Detection Input #3 or #4 will activate Alarm Output #3.
Activation of BOTH Detection Inputs #3 and #4 at the same time will activate Alarm Output #1 and #3 and start the Predischage Timer for Release Output #4.
Activation of Manual Release Input #5 will activate Alarm Outputs #1 and #3 and start the Manual Release Discharge Timer for Release Output #4.
Activation of Release Confirmation Input #7 will operate Alarm Output #3 and the RELEASING Relay.

Program #29 Mode

1. Apply power to panel.
2. Press ENT to enter PROGRAM mode
3. Press 6 or scroll down to #6 and press ENT, (The selection is indicated by a flashing arrow next to the number.
4. Enter the password. (Factory default is 1111)
5. Press 1 or press ENT. (1 should be the highlighted selection)
6. The display shows the current program number. Press 1 to change to program 1. Press ENT.
7. Press 1 to accept the change.
8. Press ENT to accept the change.

Single Hazard, 3 Detection Zones 1 Manual Station Zone and A Discharge Confirmation Zone	PROGRAM #29							Software zones
	CONVENTIONAL INPUT ZONES							
	#1	#2	#3	#4	#5	#6	#7	#8
OUTPUTS	Abort	Supervisory	Smoke Detection	Heat Detection	Manual Release	Detectors	Release Confirmation	Release Zone Type
#1 ALARM INDICATING			XXX	XXX	X	XXX		XXX*
#2 ALARM INDICATING			XXX	XXX		XXX		XXX*
#3 ALARM INDICATING			X	X	X	X	X	
#4 RELEASE			XXX	XXX	X	XXX		XXX*

*XXX = Cross-zone Release Output. 2 out of 3 will activate the Software Zone whose number will be displayed

Description: Single Hazard, 3 detection zones, a manual station zone and a discharge confirmation zone.

Inputs: 1 supervisory zone, 3 detection zones, 1 manual station zone, 1 abort circuit.

Outputs: 3 general alarm, 1 release circuit.

Operation: Activation of ANY Detection Inputs #3 or #4 or #6 will activate Alarm Output #3.

Activation of ANY two of the three Detection Inputs #3 or #4 or #6 at the same time will activate Alarm Output #1, #2 and #3 and start the Predischage Timer for Release Output #4.

Activation of Manual Release Input #5 will activate Alarm Outputs #1 and #3 and start the Manual Release Discharge Timer for Release Output #4.

Activation of Release Confirmation Input #7 will operate Alarm Output #3 and the RELEASING Relay.