Potter PFC-4064 Programming Cheat Sheet

Programming-only field reference for keypad setup, zones, points, outputs, communications, and final testing.

Use this as a quick field guide only. Do not program from memory. Verify every setting against the approved sequence of operation, shop drawings, official Potter documentation, central station requirements, local code, and AHJ direction.

1. Quick Identity

The PFC-4064 is a conventional Potter fire alarm control panel that can be programmed from the keypad or Potter programming software. This sheet focuses on keypad programming flow and common setup reminders.

Area	Programming reminder
Base inputs	6 built-in programmable input circuits
Outputs	4 built-in NACs / programmable outputs plus auxiliary output options
Software zones	Use zones to build input-to-output correlation
Communications	Built-in IP reporting; optional P-Link communicator modules may be present
Security	Use authorized programming access only; do not publish or reuse unsecured default codes

2. Programming Access Path

```
ENTER
-> Main Menu
-> 6 Programming
-> Enter authorized programming code
-> Programming Menu
```

Programming menu	Purpose
1 System Setup	Main setup area for zones, points, zone assignments, relays, P-Link devices, reporting, user codes, and more.
2 Learn Menu	Learn all, EOL learn, and PSN learn where applicable.
3 Panel Default	Factory default/reset option. Use carefully and only when intended.
4 IP Settings	DHCP/static IP, subnet, gateway, and alternate network settings.
5 Default ID / Password	Restore default ID/password values where permitted by site policy.
6 Program ID / Password	Program panel access credentials and IDs.

3. Recommended Programming Order

- Confirm wiring, module locations, drawings, and the approved sequence of operation.
- Program software zones first.
- Program input circuits and output circuits/points.
- Assign inputs and outputs to the correct software zones.
- Program relays and P-Link devices.
- Program IP reporting and/or DACT reporting.
- Program user codes and site-specific system options.
- Run Learn functions only when appropriate for the installed hardware.
- Save changes, test every input/output, and verify central station signal reporting.

4. Software Zones

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 1 Zones
```

Software zones are where the panel behavior starts. Inputs and outputs must be assigned to zones to create the cause-and-effect relationship.

Zone setting	What to verify
Style	Alarm, supervisory, PAS, auxiliary, fire drill, waterflow, system alarm, system trouble, CO alarm, etc.
Name	Use clear site language: area, floor, riser, tenant, or function.
Count	Confirm alarm count or supervisory count behavior where used.
Silenceable	Confirm whether associated outputs may silence.
Latching	Confirm whether condition remains latched until reset.
Output pattern	Confirm temporal, steady, march time, CO tone, or site-specific pattern.
Delays	Only use restore, relay, waterflow, or AC delays when approved.

5. Points - Inputs and Outputs

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 2 Points
```

Point group	Typical use
Built-in IDC6	Input circuits such as smoke, heat, pull station, waterflow, tamper, supervisory, trouble monitor, reset, silence, fire drill, etc.
Built-in PWR Sup	NACs, auxiliary power, resettable power, door holder power, city tie, sync outputs, and other output functions.

Common input circuit functions

- Smoke / Heat / Pull Station / Fire Alarm
- Waterflow / Tamper / Supervisory
- Trouble Monitor / Aux Input
- Fire Drill / Reset / Silence / Lamp Test
- CO Alarm / CO Supervisory / HVAC Restart
- Disable Inputs / Disable Outputs / Disable Inputs-Outputs
- Unused

Common NAC / output functions

- NAC General Purpose
- AMSECO, Gentex, System Sensor, or Wheelock sync where listed/compatible
- Constant auxiliary output
- Resettable auxiliary output
- Door holder output / door holder low AC behavior
- City tie
- Unused

6. Assign Points to Zones

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 3 Assign Zones
-> Add to Zone / Delete From Zone
```

This is the most important programming step. A point must be assigned to the proper software zone to create the intended response.

Example	Meaning
Input Circuit 1 = Pull Station, assigned to Zone 1	The pull station creates a Zone 1 alarm condition.
NAC 1 = General Alarm NAC, assigned to Zone 1	NAC 1 activates when Zone 1 alarms, if the zone/output attributes call for it.
Tamper Input assigned to Supervisory Zone	The tamper creates a supervisory condition instead of a fire alarm.

Field rule: Do not assume a programmed point will activate an output just because both exist. Confirm the zone assignment and zone attributes.

7. Program Relays

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 4 Program Relays
```

Relay use	Check before saving
Alarm	Does this relay need to follow all alarms or a specific zone?
Trouble	Confirm fail-safe/fail-secure expectations and monitoring use.
Supervisory	Confirm sprinkler supervisory, tamper, or other supervisory sequence.
Waterflow	Confirm elevator/shunt/HVAC/interface requirements before assigning.
Low AC	Use only where required by the approved sequence.

8. P-Link Devices

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 5 P-Link Devices
-> Edit Device / Add New Device / Delete Device
```

- Confirm the installed P-Link device type before adding or deleting devices.
- Common examples include LCD annunciators, communicators, power supply accessories, or Class A expansion hardware.
- If a device is removed from programming but remains connected, expect trouble conditions.
- If a device is connected but not learned/programmed correctly, expect trouble conditions.

9. IP Reporting and Network Settings

```
ENTER
-> 6 Programming
-> 4 IP Settings
```

Setting	Programming reminder
DHCP settings	Confirm whether the site uses DHCP or a static address.
Static IP	Use the owner/IT-provided IP. Do not guess.
Subnet mask	Match the site network plan.
Default gateway	Required for off-network communication paths.
Alternate IP/subnet/gateway	Use only where the design calls for a secondary network configuration.

IP reporting setup

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 7 IP Reporting
```

- Confirm reporting path and priority.
- Confirm account setup and event types being reported.
- Verify alarm, trouble, supervisory, and test signals with central station.
- Document the reporting method and account details per company/site procedure.

10. DACT / Dialer Programming

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 5 P-Link Devices
-> Edit Device
-> Dialer
```

Area	Common items to confirm
Line setup	Enable/disable, line monitor, dial tone detection, number of rings, prefix, answering-machine setting.
Account setup	Account ID, format, phone number, report test, and event reporting selections.
Reporting selections	Alarm, trouble, supervisory, and whether reporting is by panel, point, or zone.

11. User Codes

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 8 User Codes
```

- Create user profiles only for authorized personnel.
- Assign permissions based on role, not convenience.
- Remove or change unsecured default credentials before turnover where required.
- Document final access information using approved company/customer process.

12. More System Setup Options

```
ENTER
-> 6 Programming
-> 1 System Setup
-> 9 More
```

Option group	Programming caution
AC Report Delay	Use only when permitted by code, monitoring requirements, and AHJ/site standards.
Waterflow Delay	Confirm waterflow retard/delay requirements and do not mask real alarm response.
Door Holder Delay	Confirm door release sequence and smoke door expectations.
Alarm Verification	Use only for approved smoke detector applications where allowed.
Autotest Setup	Confirm monitoring and owner expectations before enabling.
Time Zone / DST	Important for accurate history and reporting.
Job Details / Panel Name / Idle Message	Use clear site-identifying information.
Strobe Silence / CO Tone / 24-Hour Resound	Confirm site sequence and appliance compatibility.
Cross Zones	Use only where specifically designed and approved.

13. Learn Menu

```
ENTER
-> 6 Programming
-> 2 Learn Menu

1 Learn All
2 EOL Learn
3 PSN Learn
```

- Learn All: use when the programming workflow calls for learning connected devices/hardware.
- EOL Learn: use only after confirming correct resistor/EOL installation and circuit condition.
- PSN Learn: use when applicable to connected power supply network equipment.
- Always review resulting troubles after a learn operation before leaving site.

14. Save and Exit

```
ENTER = Accept / Save
ESC   = Cancel / Back out
```

When backing out of programming, the panel may prompt to accept or cancel changes. Confirm the intended action before leaving the programming menu.

15. Final Programming Test Checklist

Done	Test / verification item
■	Approved drawings and sequence of operation reviewed
■	Input circuit function and location names verified
■	Output/NAC function, sync type, and silenceability verified
■	Software zones programmed with correct style and attributes
■	Inputs and outputs assigned to correct zones
■	Relays tested against the required sequence
■	P-Link devices present, programmed, and free of communication troubles
■	IP and/or DACT reporting programmed and documented
■	Alarm signals verified with central station
■	Trouble signals verified with central station
■	Supervisory signals verified with central station
■	System history reviewed after testing
■	Final normal condition verified before leaving site
■	Final programming information saved/documented per company process

16. Common Mistakes to Avoid

- Programming the input function correctly but forgetting to assign it to the proper zone.
- Assigning a supervisory input to an alarm-style zone.
- Changing NAC sync type without checking appliance compatibility.
- Leaving unused circuits active instead of properly marking them unused.
- Using delays or verification features without design/AHJ approval.
- Forgetting to verify central station signal type after programming changes.
- Assuming reset cleared the cause instead of confirming the field device restored.

Sources: Potter Electric PFC-4064 Keypad Programming Guide, manual 8870080; Potter PFC-4064 product and training resources. This sheet is a condensed reference and is not a replacement for official documentation.

Prepared for FireAlarmGuy.net