Application Notes

DSC

1.17 Low Temp Sensor on PK55XX Keypad *(PC1616/1832/1864 V4.2)*

Panels:

POWER SERIES (PC1616/1832/1864 V4.2)

Overview:

Each PK55XX has a built in Low Temp Sensor. When this sensor reaches a temperature of 6 degrees Celsius the keypad will violate a programmable zone. The zone will restore at 8 degrees Celsius. The zone input can be used as any zone on the system, from 1 through 64. If the keypad zone is assigned a zone number that is present on the main panel, it will replace the existing zone and the zone on the main panel will be disabled.

Programming keypad zones on the PK55XX is a five-step process:

- Assign the keypad to a slot number
- Program a definition for the zone
- Assign the zone to the keypad slot
- Assign the zone to the partition
- Enable the Low Temp keypad option

Program Sections:

Section [000], [0]	Keypad Assignment
Section [001] – [004]	Zones 1 to 64 Definitions
Section [020]	Keypad Zone Assignment
Section [202] – [265]	Partition Assignment – Zones 1 to 64
Section [*][077], Opt 3, 7	Other Options (to enable keypad Low Temp)

Step 1 – Keypad Assignment

To use keypad zones, each keypad must be assigned to its own slot (1 to 8). To assign a keypad to a specific slot, perform the following:

Enter [*][8] [Installer's Code]	Enter Installer's Programming
Enter [000]	Enter Keypad Assignment Section
Enter [0]	Enter Partition and Slot Assignment Section

Enter a two-digit number. The first digit is the partition the keypad will be assigned to, [0] for global operation, [1] for partition 1, [2] for partition 2, [3] for partition 3, [4] for partition 4, [5] for partition 5, [6] for partition 6, [7] for partition 7 or [8] for partition 8. The second digit is the slot the keypad will be assigned to (1 to 8).

Note: **If you are using keypad zones, DO NOT assign more than one keypad to the same slot.**

Note: **If PK5500Z keypads are being used, one keypad must be assigned to slot [8] for downloading purposes.**

Step 2 – Keypad Zone Definition

Zones must be defined before they will operate. Depending on the control panel being used, approximately 40 different zone definitions are available. Enter Section [001] – [004] and program the 2-digit number corresponding to the required zone definition for each zone.

> Section [001] – Zones 1 to 16
> Section [002] – Zones 17 to 32
> Section [003] – Zones 33 to 48
> Section [004] – Zones 49 to 64

Step 3 – Keypad Zone Assignment

This Section is used to program which zone will be assigned to which keypad slot. Program the two-digit zone number that will be assigned to the keypad in the corresponding slot. Enter data [00] if no keypad is assigned to the slot # or if the zone input on the keypad will not be used.

For example:

An installation has three LCD keypads, assigned to slot [1], [2] and [8] (at least one LCD must be assigned to slot [8] for downloading purposes), to be used as zones 6, 7 and 8 respectively.

Program section [020] with the following data:

Keypad Slot #1	[06]	Keypad Slot #5	[00]
Keypad Slot #2	[07]	Keypad Slot #6	[00]
Keypad Slot #3	[00]	Keypad Slot #7	[00]
Keypad Slot #4	[00]	Keypad Slot #8	[08]

Note: In this example, zones 6, 7 and 8 on the main panel will be disabled.

Step 4 – Partition Zone Assignment

Zones will not function until they are enabled. Ensure that all zones being used are enabled.

Section [202] – Section [209]	Partition 1 Zone Assignments – Zones 1 to 64
Section [210] – Section [217]	Partition 2 Zone Assignments – Zones 1 to 64
Section [218] – Section [225]	Partition 3 Zone Assignments – Zones 1 to 64
Section [226] – Section [233]	Partition 4 Zone Assignments – Zones 1 to 64
Section [234] – Section [241]	Partition 5 Zone Assignments – Zones 1 to 64
Section [242] – Section [249]	Partition 6 Zone Assignments – Zones 1 to 64
Section [250] – Section [257]	Partition 7 Zone Assignments – Zones 1 to 64
Section [258] – Section [265]	Partition 8 Zone Assignments – Zones 1 to 64

Note: If zones are assigned to other Partitions ensure the partitions are enabled in Section [201].

Step 5 – Enable Keypad Zone

Enter programming and press [*] to enter Keypad Programming. To enable the Low Temp on the PK55XX keypad, turn option [8] ON and option [3] ON in Keypad Section [077].

Quick Test:
Cover an ice cube with plastic and touch the low temperature sensor (Fig 1). The low temp zone will violate within 60 seconds and will restore within 5 minutes when the ice is removed.
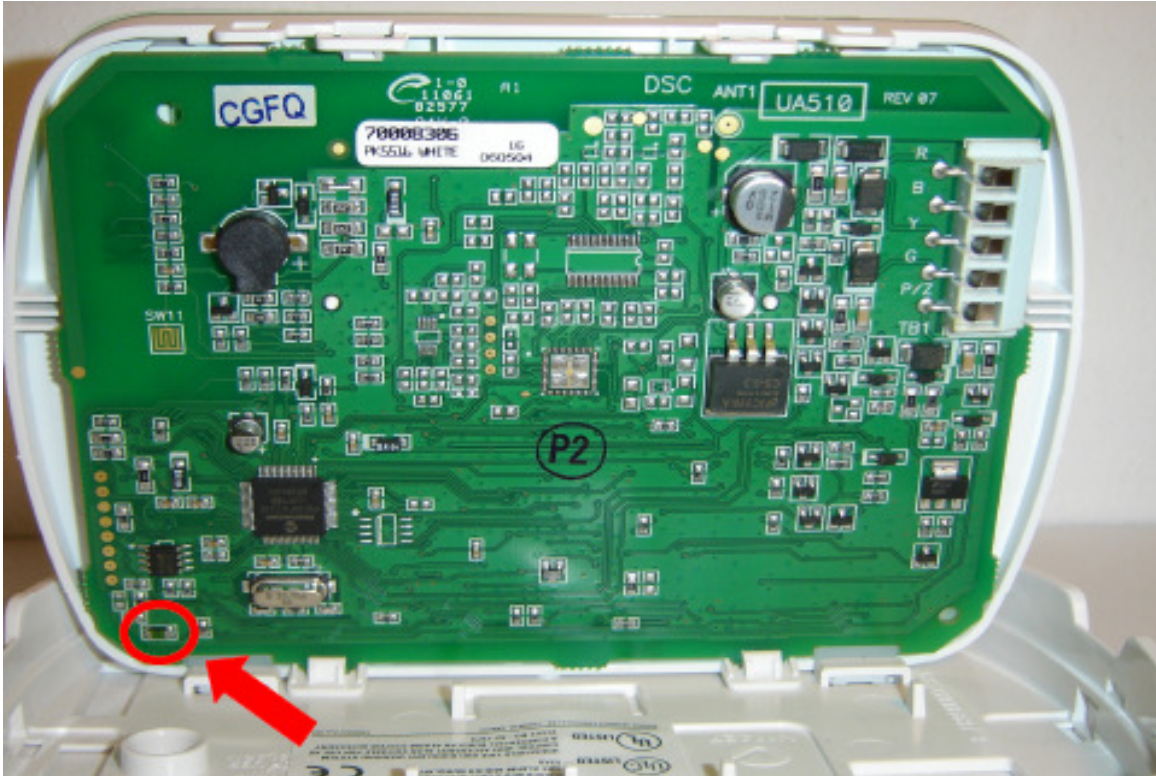

Fig 1.