

APPLICATION NOTE

ESP DEVICE PROGRAMMER (TCH-B100)

Operation Modes

Some sensors have the ability to be programmed so that their LED flashes when responding to the panel (polling) or don't flash when responding to the panel (non-polling). The TCH-B100 programmer can be set into any of three modes to permit the LED on these units to be set as desired. The three modes are:

Standard mode:	In this mode the unit will read the address, permit changing the address and reading the analogue value. On those sensors where the LED can be programmed to polling or non-polling, the LED mode will remain unchanged from that stored in the sensor. On power up the unit will display running dots, unless a sensor is already fitted (in which case it will show the sensor address).
Polling LED:	This mode has all the features of the standard mode but when an ALK-E, ALG-EN, ACB-E or an ACA-E is connected it automatically configures the LED as polling. On power up the unit will display "POLL" followed by the addressing mode (127 or 255), then the device address if one is connected, or running dots if not.
Non Polling LED:	This mode has all the features of the standard mode but when an ALK-E, ALG-EN, ACB-E or an ACA-E is connected it automatically configures the LED as non-polling. On power up the unit will display "N-P" followed by the addressing mode (127 or 255), then the device address if one is connected, or running dots if not.

Configuration Menu

To change operation a special menu needs to be accessed. To access this menu, make sure there is no sensor connected and the unit is switched off. Press and hold down the right grey and top red button, then press and hold down the left grey power on button until the unit starts flashing dots on the screen. Release the left grey power on button while keeping the other two pressed until the display shows one of the following:-

S t d (Standard Mode)
N-P (Non Polling LED)
Poll (Polling LED)

}

Option A

At this point, the right grey button and top red button should be released.

127 (127 addressing)
255* (255 addressing)

}

Option B

*255 addressing is for future development.

While in this menu, by using the lower left grey button, you can scroll through the options listed above. The dots of the segments will flash when the setting of the current mode is displayed. Note that the programmer can be set to one setting from option A and one from option B. Once the required option is displayed, pressing the lower right grey button will select the option (dots on the segments will flash).

To program the selected options press the red button. This will store the settings and exit the configuration menu. The programmer will blink this configuration once and then shutdown. The programmer will stay in the selected mode until it is changed once again by repeating this process with another choice of operating mode. The selection is held in non-volatile memory and so remains when the batteries are removed.



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