

FAQ Note

How to Disable the Keyboard Buttons

Problem:

Certain models of INCON panel instruments have “ZERO” or “SET” buttons that can be pressed during the RUN mode, which will affect the reading on the display and subsequently, all output signals. There are applications where an accidental change of the display reading can be catastrophic. For these applications, it is necessary to disable these buttons in software or disconnect the entire keyboard.

Explanation:

The models 1270, 1271, 1511-Z and 1511-LTC have the capability of being “Zero-ed” or “Preset” while in the RUN mode. This feature can be an advantage when frequent adjustment of the displayed value is required. It can also be a risk in applications where any accidental change in the display value can cause (possibly serious) problems. The models 1270 and 1271 have the ability to disable the ZERO and SET buttons in software. The models 1511-Z and 1511-LTC do not have this software capability, therefore the only way to avoid accidental change of the display value is to physically disable the entire keyboard.

Solution:

For Model 1270 there are two ways to disable the ZERO & SET buttons:

1. Press the INCH and MM buttons together momentarily.
 - A menu will appear with the items: DIS; EnA; CLr; and rLYCL.
 - Select “DIS” and press the SET button.
 - The 1270 will return to the RUN mode and the ZERO & SET buttons will be disabled.
 - To enable the ZERO & SET buttons, repeat these steps and select “EnA”.

2. Enter the PROGRAM Mode by jumping terminals 3 & 4 momentarily.
 - The main menu will appear showing the word “run”.
 - Scroll up until the display reads “FPACC” and press the SET button.
 - A menu will appear with the items: On and OFF.
 - Select “OFF” and press the SET button.
 - Press the ZERO button until the display reads “run” and press the SET button.
 - The 1270 will return to the RUN mode and the ZERO & SET buttons will be disabled.
 - To enable the ZERO & SET buttons, repeat these steps and select “On” in the FPACC .

Application Bulletin

For Model 1271 there is only one way to disable the ZERO & SET buttons, but they can be separately disabled, for each Scale Factor, A, B or C:

1. Enter the PROGRAM Mode by jumping terminals 3 & 4 momentarily.
 - The main menu will appear showing the word “run”.
 - Scroll up to the Scale Factor for which you desire to disable the ZERO & SET buttons and press the SET button.
 - Scroll up to FSET to disable the SET button for this Scale Factor, then press the SET button.
 - A menu will appear with the items: On and OFF.
 - Select “OFF” and press the SET button. The display will read “FSET”.
 - Scroll up to FZErO to disable the ZERO button for this Scale Factor, and press the SET button.
 - A menu will appear with the items: On and OFF.
 - Select “OFF” and press the SET button. The display will read “FZErO”.
 - Press the ZERO button until the display reads “run”. Press the SET button.
 - The 1271 will return to the RUN mode and the ZERO and/or SET button will be disabled for the Scale Factor affected.
 - To disable the buttons for a different Scale Factor, repeat these steps and select a different Scale Factor from the main menu.
 - To enable the SET or ZERO button, repeat these steps and select “On” in the FSET or FZErO menu items.

For the Models 1511-Z and 1511-LTC the only way to disable the ZERO and SET buttons is to physically disconnect the keyboard altogether:

1. After fully programming the 1511 and making sure it is working properly, remove the instrument from its case by squeezing the lock tabs on the bottom and top of the Front Panel and pulling the “guts” from the plastic case.
2. Remove the two Philips screws from the top PC board.
3. Separate the 3-layer PCB sandwich between the BOTTOM and MIDDLE PC boards. Be careful not to bend any of the interconnection pins!
4. Unplug the keyboard ribbon from its socket on the bottom PCB. It is a thin, clear plastic ribbon that extends from the back of the display panel. It is plugged into a black plastic connector on the PCB just behind the display panel.
5. Re-assemble the instrument. CAREFULLY insert all interconnection pins into the sockets on the bottom PCB. Install the two Philips screws in the top PCB. Slide the instrument into the case until it snaps into position.
6. The 1511 should power up in the RUN mode and the keyboard will be disabled.
7. To enable the keyboard, repeat these steps, and plug the keyboard ribbon back into its socket (step #4).