Kessler-Ellis Application Note F044

Minitrol Series
Most Common Field Related Problems

Q1.The display will not read the input(0 on display all the time).

- Make sure signal is getting to the unit. You can test the inputs by jumping terminal 7 12vdc output to the inputs. Make sure the Factor is set for one when testing this way.
- Check that the `Factors` are NOT set at zero.
- Under `count` in the program make sure the count speed is not set for `Lo Cps`
- Make sure the presets are not set at zero and relays set for a duration output.

Q2.The Unit is reading incorrect:

- Wrong Factors programmed

Q3. The Unit will Rate all F's

- The unit is trying to display a value that is to large for the display. Check the decimal point location under `count` in the program.
- Factor value is to small

Q4.The display isTotalizing on its own with no input.

- This will happen with Mag input option.Make sure customer is using shielded cable and it is grounded propperly.
- Mag input option, noise on the line. Place a 1kohm resistor from terminal 8 to input terminal 5 or 6 which ever one is being used.

Q5. The Totalizer keeps auto resetting to zero

- Under relays in the program change the `dur` (duration) to .00 or change the relays to follow the rate display.

Q6. Can not read the Analog out.

- Make sure that the analog out option was ordered (have customer read part number to you)
- Analog out put is a sinking output and must be looped from terminal 13 to terminal 14. There is no need for external power supplies.
- Make sure the set Hi and set Lo are not both at zero.

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Q7: What can I view with the Minitrol ?

- The user can view the Rate of the A input and the Total of both A & B by pressing the view button on the front of the unit. The B Total is the display with all the decimals in it.

Q8: What type of memory does the Minitrol Series Have?

- The Minitrol Series has a EEPROM memory and is capable of storing program and count data for a minimum of 10 years. This is also referred to as non-volatile memory.

Q9: What is the maximum current rating of the D.C. output?

- The D.C. outputs are rated at 50ma maximum current draw.

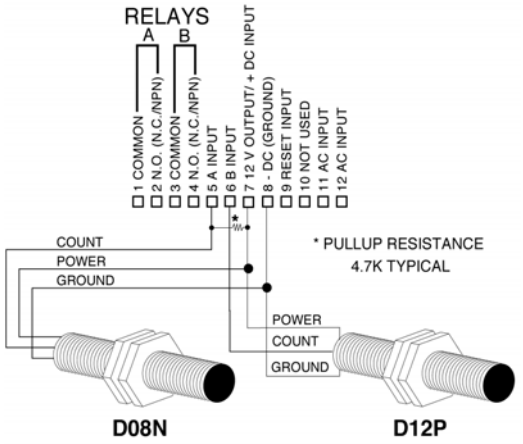
Q10 What is the Factor?

- There are two separate dividing scale Factors that are entered as the number of pulses per desired unit of measurement.
- Example: 50 pulses equal 10 pound of fluid. Your Factor would be 2.5. (50 pulses / 10 pounds)

Q11 How do I Wire the Inputs?

- Below you will find typical wiring diagrams to help you wire the Minitrol.

Sensor Wiring Diagram



Flow Meter Wiring Diagram