

## Power UP reset of 7931 and 7921 Counters

The 7921 and 7931 use an EEPROM to save programming details and count data.

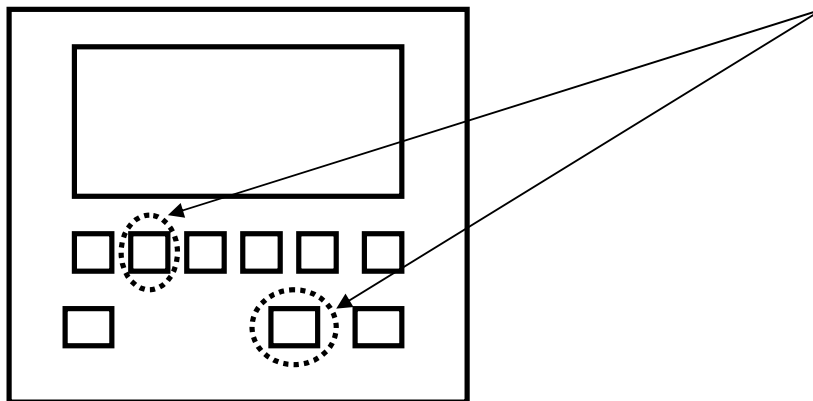
This operates by detecting the internal power supply. When the power is switched off, the internal power supply drops in voltage, and this is detected. The processor halts operation, and saves all data to the EEPROM, also a checksum is calculated, and saved to the EEPROM.

On power up, the unit reads the contents of the EEPROM, calculates the checksum, and compares it to the saved checksum. If the calculated and saved checksums differ, the unit recognises that a memory corruption has occurred, and displays “ERR CH” to signify a checksum error.

Usually the cause of a checksum error is either a genuine fault with the processor or EEPROM, or it can be caused by noise or spikes on the power supply (these effects can be reduced by fitting a mains filter).

To clear the checksum error it is necessary to perform a “Power Up Reset”, as shown below:

- 1) Switch off power
- 2) Press the PROG key and digit 5 key (keep both keys pressed)



- 3) Keep both keys pressed, switch power on (keep keys pressed for 15 seconds).
- 4) The memory should now be cleared to default values and settings. Re-program unit with customer configuration