Fast TTL counter for gas detector

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We developed an ARM Cotex M-3 based 84MHz counter. This counter is having a programmable timer, which can be varied manually from a few seconds to a few hours. The designed counter presently is operating with LV TTL (0 –3.3 V) to count pulses and display in the LCD. The counter has two modes of operation, one is manual mode and other one is remote mode. In the manual mode, the scalar counts the pulses for a time interval set manually and display in the LCD. After the interval, the scalar needs to be manually reset to start again. In the remote mode, a program is developed on LabView platform to start the counter and also it can be programmed for a number of loops and interval of loops. The detail fabrication process and calibration result for this counter will be presented.

Presentation type

Oral

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