DIGITAL CAPACITANCE-CUM-FREQUENCY METER

Prepared by: Chang Heen Loong

ABSTRACT

My project tile is 'Digital Capacitance-Cum-Frequency Meter'. It can measure the capacitance in the range of 1pF to $10000~\mu F$ and frequency in the range of 0 to 100~kHz. With a slight modification, this circuit can be used as an article counter or a time meter. For capacitance measurement, one R x C time (seconds) is required to charge a capacitor to 60% of its final value (applied voltage). For frequency measurement, this involves passing the unknown frequency signal for a known time base period through the counter. They are controlled by ganged switches.