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Moisture Measurement in Paddy Rice

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The study on measurement of moisture content in paddy rice by capacitance method, using the principle of physics is capacitance that relate with dielectric of water. The study use IC555 frequency circuit for measure moisture content. We put the paddy rice in parallel plates that replace a capacitance in circuit. The frequency will change follow by capacitance of paddy rice, by the way if the frequency is high the capacitance will low. In this paper the moisture content that measure by IC555 frequency circuit have a different from ISO method around $\pm 1\%$ in the range of moisture content 14% to 20%.

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