

Transmitter Block Diagram

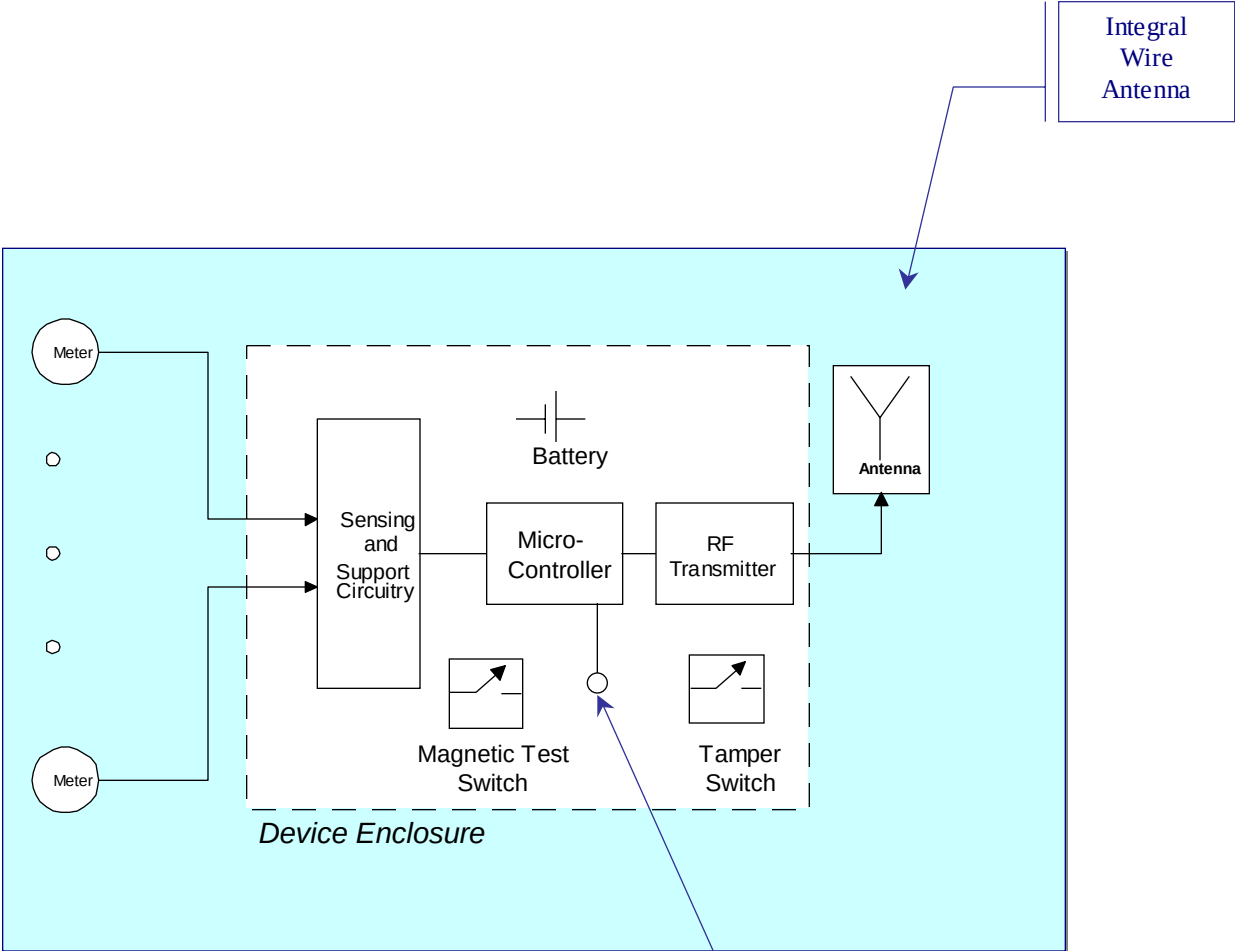


Diagram 1 - RF Section Block Diagram
(also see separately attached schematics)

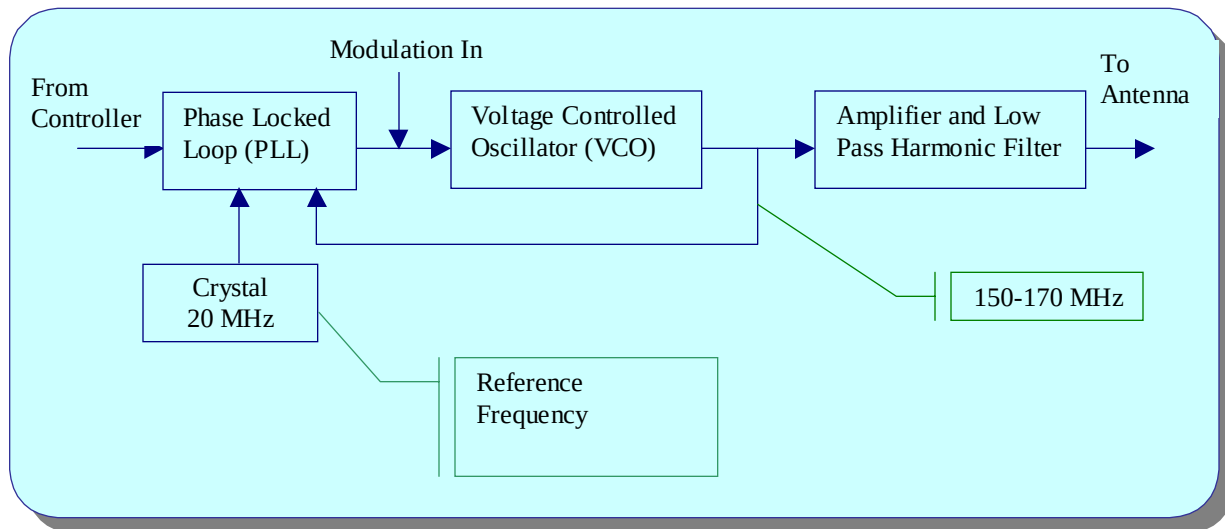


Diagram 2 – Transmitter's RF Section Block Diagram

A PLL IC (LMX1601 from National Semiconductors) gets the reference from a crystal oscillator and locks the VCO output to the crystal frequency. The VCO is a derivative of a Colpitts varactor tuned oscillator. NE85633 is the oscillator transistor.

The VCO output is amplified by a RF amplifier. The output is further filtered by a 6 poles low pass filter that rejects the harmonics.

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