

Inside Signature Pad



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How does it work?

Beneath the LCD surface of the signature pad there are horizontally and vertically oriented antennas, changing within microseconds between transmission and reception mode. Electromagnetic waves enable the pad to determine the X- and Y-position of the pen using triangulation.

An electromagnetic signal stimulates a resonant circuit comprising a coil and capacitor in the pen to oscillate. The resonant circuit behind the pen tip is driven by electric power from the tablet and serves as a transmitter. The received signal then passes through the modulator to the chip. The information from the pressure sensor (capacity) of the side switch goes to the chip and from there they enter the modulator. This returns a signal to the resonant circuit in the tip which sends it back to the tablet.

