

**20.** The software method of claim **19**, wherein said temperature compensation module compensates said sensor data based on a moving average of prior sensor readings.

**21.** The software method of claim **12**, wherein said software module for compensation of sensor data further comprises a software module for auto calibration and preloading compensation of sensor data.

**22.** The software method of claim **12**, wherein said software module for compensation of sensor data further comprises a software module for humidity compensation of sensor data.

**23.** The software method of claim **12**, wherein said software module for compensation of sensor data further comprises a software module for voltage compensation of sensor data.

**24.** The software method of claim **12**, wherein said software module for compensation of sensor data further comprises a software module for filtering of sensor data noise.

**25.** The software method of claim **12**, wherein said software module for compensation of sensor data further comprises a software module for material calibration of said touchscreen.

**26.** A differential-force touchscreen display for a portable electronic device, comprising:

- a display module from among a group including an LCD display module, OLED display module, touch lens module or touch pad module;
- a plurality of FSR force sensors in operative contact with said display panel;
- a processor in communication with said FSR force sensors, said processor having associated memory;
- a software program resident in said processor memory or external memory accessible to the processor, for improving touch precision of said touchscreen, said software comprising a function for linearization and homogenization of sensor data.

**27.** The differential-force touchscreen display of claim **26**, wherein said software method further comprises a function for temperature compensation of sensor data.

**28.** The differential-force touchscreen display of claim **26**, wherein said software method further comprises a function for auto calibration and preloading compensation of sensor data.

**29.** The differential-force touchscreen display of claim **26**, wherein said software method further comprises a function for humidity compensation of sensor data.

**30.** The differential-force touchscreen display of claim **26**, wherein said software method further comprises a function for voltage compensation of sensor data.

**31.** The differential-force touchscreen display of claim **26**, wherein said software method further comprises a function for filtering of sensor data noise.

**32.** The differential-force touchscreen display of claim **26**, wherein said software method further comprises a function for material calibration of said touchscreen.

**33.** The differential-force touchscreen display of claim **26**, wherein said software method further comprises a plurality of functions for data filtering, voltage conversion, sensor calibration, sensor reading linearization, auto calibration, positioning determination and finally end-user and mechanical calibration.

**34.** A differential-force touchscreen display for a portable electronic device, comprising:

- a display module;
- an FSR force sensor;
- a plastic housing enveloping said FSR force sensor and maintaining operative contact with said display module, said plastic housing imparting a compressive preload on said force sensor.

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