

SensoGlove Teardown

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Inside the SensoGlove



The SensoGlove caught our eye-- not because it promises to improve your golf swing, but because of the interesting sensors inside. So we did what comes naturally-- took the device apart to figure out how it works!



First-- how's it supposed to work? Four pressure sensors detect the grip on your digits (there's no sensor in the thumb). Squeeze any one too hard and the electronic unit on the wrist will beep and display the offending finger.





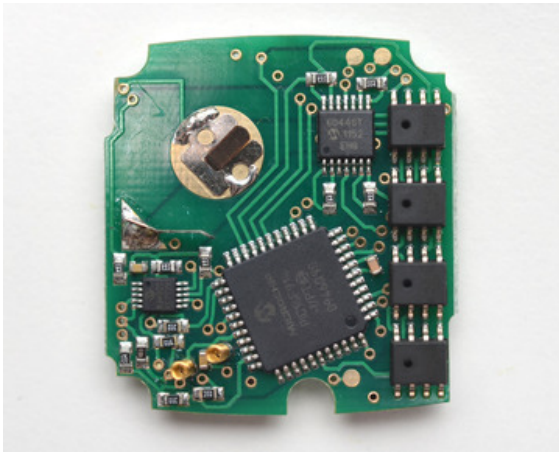
When we looked inside, we found small air bladders stitched into the fingers, with small rubber tubes routed back to the electronics port on the wrist.

Four rubber ports in the electronics dock mate with four rubber ports on the back of the module, forming an airtight seal that's detects each squeezing finger.





The glove and electronics are separate, making it easy to replace or wash the glove without replacing the working electronics module.



Here are the datasheets:

Microcontroller (<https://adafru.it/cfO>)

MCP6604 quad Opamp (<https://adafru.it/cfP>)

MCP4728 I2C 12-bit DAC (<https://adafru.it/cfQ>)

SM5420C pressure
sensor (<https://adafru.it/cfR>)

