



## SparkFun Qwiic Keypad - 12 Button

COM-15290

Keypads are very handy input devices, but who wants to tie up seven GPIO pins, wire up a handful of pull-up resistors, and write firmware that wastes valuable processing time scanning the keys for inputs? The SparkFun Qwiic Keypad comes fully assembled and makes the development process for adding a 12 button keypad easy. No voltage translation or figuring out which I<sup>2</sup>C pin is SDA or SCL, just plug and go! Utilizing our handy Qwiic system, no soldering is required to connect it to the rest of your system. However, we still have broken out 0.1"-spaced pins in case you prefer to use a breadboard.

Each of the keypad's 12 buttons has been labeled 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, \*, and # and has been formatted to into the same layout as a telephone keypad with each keypress resistance ranging between 10 and 150 Ohms. The Qwiic Keypad reads and stores the last 15 button presses in a First-In, First-Out (FIFO) stack, so you don't need to constantly poll the keypad from your microcontroller. This information, then, is accessible through the Qwiic interface. The SparkFun Qwiic Keypad even has a software configurable I<sup>2</sup>C address so you can have multiple I<sup>2</sup>C devices on the same bus.

*The SparkFun Qwiic connect system is an ecosystem of I<sup>2</sup>C sensors, actuators, shields and cables that make prototyping faster and less prone to error. All Qwiic-enabled boards use a common 1mm pitch, 4-pin JST connector. This reduces the amount of required PCB space, and polarized connections mean you can't hook it up wrong.*

## FEATURES

- Software Selectable Slave Address
- Low Power ATtiny85 controller
- Button Presses w/ Time Stamp
- Default I<sup>2</sup>C Address: 0x4B
- 2x Qwiic Connector

