

# Touch Wheel Phidget



Need a user-friendly control panel for your Phidgets project? Look no further than the Touch Wheel Phidget. This user interface board uses capacitive touch technology, similar to the touchscreen on a smartphone. Capacitive touch sensors such as this can detect a touch through a piece of glass or plastic of up to 3mm thick, so you can hide this board inside an enclosure or behind a panel. The HIN1001 connects to a port on a **VINT Hub**. See the “Compatible Products” tab for a list of hubs.

## Features

This board has four touch buttons and one fully-functional scroll wheel pad. Whenever a button or the scroll wheel is initially touched, an event is fired in software, allowing you to react immediately to the change. The scroll wheel also generates an event whenever your finger’s position changes as you slide it across the wheel. You can also adjust the sensitivity of the board to avoid missed touches or unintentional touches.

## Product Specifications

### Sensor Properties

|                        |               |
|------------------------|---------------|
| Controlled By          | VINT          |
| Detecting Distance Max | 5 mm          |
| Sampling Interval Min  | 20 ms/sample  |
| Sampling Interval Max  | 250 ms/sample |

### Electrical Properties

|                         |                    |
|-------------------------|--------------------|
| Current Consumption Min | 20 $\frac{1}{4}$ A |
| Current Consumption Max | 2 mA               |

### Physical Properties

|                           |        |
|---------------------------|--------|
| Operating Temperature Min | -40 °C |
| Operating Temperature Max | 85 °C  |

## Sensitivity Settings

| Sensitivity (0-1) | Application               |
|-------------------|---------------------------|
| 0.8 – 1.0         | Behind up to 3mm of glass |
| 0.2               | Inside default enclosure  |