

# pH Phidget



For applications involving water quality and chemistry, this module is a great addition to your collection. You can use this adapter to measure one pH or voltage-based probe that uses a BNC connector. The ADP1000 connects to a port on a **VINT Hub**. See the “compatible products” tab for a list of hubs.

## Isolated for Stability

The VINT connector on this board is electrically isolated from the probe connection, which allows the probe to be used in a solution that is electrically noisy. For example, it could be used in a tank containing pumps and other electronic equipment without any problems.

## Product Specifications

### Sensor Properties

Controlled By VINT

#### $\pm 400\text{mV}$ Range

|                       |                     |
|-----------------------|---------------------|
| Voltage Resolution    | 40 $\mu\text{V}$ DC |
| Measurement Error Max | $\pm 0.1\%$         |
| Sampling Interval Max | 60 s/sample         |
| Sampling Interval Min | 50 ms/sample        |
| Voltage Noise         | 65 $\mu\text{V}$ DC |

### PHSensor Mode

|                       |              |
|-----------------------|--------------|
| pH Resolution         | 0.0007       |
| Measurement Error Max | $\pm 0.1\%$  |
| Sampling Interval Max | 60 s/sample  |
| Sampling Interval Min | 50 ms/sample |
| pH Noise              | 0.0011       |

#### $\pm 2\text{V}$ Range

|                    |                      |
|--------------------|----------------------|
| Voltage Resolution | 200 $\mu\text{V}$ DC |
|--------------------|----------------------|

|                       |                |
|-----------------------|----------------|
| Measurement Error Max | $\pm 0.5 \%$   |
| Sampling Interval Max | 60 s/sample    |
| Sampling Interval Min | 50 ms/sample   |
| Voltage Noise         | 235 $\mu$ V DC |

#### **Voltage Sensor**

|                          |              |
|--------------------------|--------------|
| Sensor Input Impedance   | 1 T $\Omega$ |
| Number of Voltage Inputs | 1            |

#### **Electrical Properties**

|                         |         |
|-------------------------|---------|
| Current Consumption Min | 6 mA    |
| Current Consumption Max | * 10 mA |

#### **Physical Properties**

|                           |                  |
|---------------------------|------------------|
| Operating Temperature Min | -40 $^{\circ}$ C |
| Operating Temperature Max | 85 $^{\circ}$ C  |

\* – Varies depending on selected data interval. See the technical section of the User Guide for details.