

	<b>BIO-PM 4.19 pH Meter and Electrode</b>	
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	<i>Document Manager: Kristin Schelling</i>	<i>Approved By: Jeffrey Nye</i>

## **4.19 pH Meter And Electrode**

### **4.19.1 Scope**

To ensure that the pH meter is operating correctly. Calibration is performed before each measurement.

### **4.19.2 Background Information**

Refer to Owners Manual

### **4.19.3 Operation**

#### **4.19.3.1 Calibration and use**

##### **4.19.3.1.1**

Turn power on and set temperature dial to ambient temperature.

##### **4.19.3.1.2**

Set electrode dial to the pH scale.

##### **4.19.3.1.3**

Rinse electrode with deionized water, remove excess water using Kimwipe.

##### **4.19.3.1.4**

Place electrode in pH 7 calibration buffer.

##### **4.19.3.1.5**

Adjust to 7.0 with Calibration 1 knob.

##### **4.19.3.1.6**

Rinse electrode with deionized water, remove excess water using Kimwipe.

##### **4.19.3.1.7**

Place electrode in either pH 4 or pH 10 calibration buffer.

##### **4.19.3.1.8**

Adjust Calibration 2 knob, accordingly.

##### **4.19.3.1.9**

Rinse electrode with deionized water, remove excess water using Kimwipe.

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#### **4.19.3.1.10**

Measure sample.

#### **4.19.3.1.11**

Rinse electrode and place in storage buffer.

#### **4.19.3.1.12**

Record and maintain pH meter calibration data in the pH Calibration Log form, FS-71.

### **4.19.3.2 Storage**

#### **4.19.3.2.1**

Keep electrode filled with Potassium Chloride Solution.

#### **4.19.3.2.2**

Store electrode in Storage Buffer (2 M solution of Potassium Chloride). The Fisher Scientific Accumet pH probe should be stored in the electrode storage solution or a 50:50 mixture 4M potassium chloride and pH 4 standard buffer.

#### **4.19.3.2.3**

2 M Storage buffer: 1:1 ratio Potassium Chloride Solution and deionized water.