

# VIKING-PHTC – Laboratory Benchtop pH Meter



# VIKING pH Meters Global Configuration

| pH Meter Type                 | <a href="#">VIKING-PHPEC</a> | <a href="#">VIKING-PHBA</a> | <a href="#">VIKING-PHPOC</a> | <a href="#">VIKING-PHCPOC</a> | <a href="#">VIKING-PHDOPOC</a> | <a href="#">VIKING-PHBC</a> | <a href="#">VIKING-PHCOBC</a> | <a href="#">VIKING-PHDOBC</a> | <a href="#">VIKING-MUBC</a> | <a href="#">VIKING-PHBT</a> | <a href="#">VIKING-PHCGBT</a> | <a href="#">VIKING-PHDOBT</a> | <a href="#">VIKING-MUBT</a> | <a href="#">VIKING-PHTC</a> | <a href="#">VIKING-PHCOTC</a> |
|-------------------------------|------------------------------|-----------------------------|------------------------------|-------------------------------|--------------------------------|-----------------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|
| <b>pH Type</b>                | Pen                          | Bench                       | Portable                     | Portable                      | Portable                       | Bench                       | Bench                         | Bench                         | Bench                       | Bench                       | Bench                         | Bench                         | Bench                       | Tablet                      | Tablet                        |
| <b>Outdoor Possibility</b>    | •                            | •                           | •                            | •                             | •                              |                             |                               |                               |                             |                             |                               |                               |                             | •                           | •                             |
| <b>pH Meter</b>               | •                            | •                           | •                            | •                             | •                              | •                           | •                             | •                             | •                           | •                           | •                             | •                             | •                           | •                           | •                             |
| <b>pH/Cond Meter</b>          |                              |                             |                              | •                             |                                |                             | •                             |                               | •                           |                             | •                             |                               | •                           |                             | •                             |
| <b>pH/DO Meter.</b>           |                              |                             |                              |                               | •                              |                             |                               | •                             |                             |                             |                               | •                             |                             |                             |                               |
| <b>pH/Cond/DO Meter</b>       |                              |                             |                              |                               |                                |                             |                               | •                             |                             |                             |                               |                               | •                           |                             |                               |
| <b>Touch Screen</b>           |                              |                             |                              |                               |                                |                             |                               |                               |                             | •                           | •                             | •                             | •                           |                             |                               |
| <b>USB Output</b>             |                              |                             |                              |                               |                                | •                           | •                             | •                             | •                           | •                           | •                             | •                             | •                           | •                           | •                             |
| <b>Bluetooth Option</b>       |                              |                             |                              |                               |                                | •                           | •                             | •                             | •                           | •                           | •                             | •                             | •                           |                             |                               |
| <b>Temperature Sensor</b>     |                              |                             | •                            | •                             | •                              |                             |                               |                               |                             | •                           | •                             | •                             | •                           |                             |                               |
| <b>pH composite electrode</b> |                              |                             | •                            | •                             | •                              |                             |                               |                               |                             | •                           | •                             | •                             | •                           |                             |                               |
| <b>Two in One Electrode*</b>  |                              |                             |                              |                               |                                | •                           | •                             | •                             | •                           | •                           | •                             | •                             | •                           | •                           | •                             |

\*Electrode consist: pH combination Electrode and Temperature Probe

## VIKING-PHTC Technical Specification

- 5-inch LCD screen with 150 degree viewing angle for clear radius up to 5 meters.
- Built-in microprocessor chip with intelligent functions such as automatic calibration, ATC, function settings, low voltage alarm, and data storage.
- Two USB interfaces for PC connection, battery charging and data transfer.
- 3.5mm electrode interface for easy electrode connection.

- Automatic recognition of different electrodes. The electrode with built-in chip can automatically store and retrieve calibration data after connecting with the meter.
- Automatic recognition of 15 buffers: Europe & USA, NIST.
- Support for 1, 2, and 3 point calibration.
- Can store 200 sets of data including readings GLP data, and time.
- Rechargeable battery can last up to 30 hours.
- Auto power-off when idle for 10 minutes.

### Specifications:

#### pH:

- Measuring range: (-2 to 19.999 pH)
- Resolution: 0.1 / 0.01 pH
- Accuracy:  $\pm 0.02$  pH
- Input current:  $\leq 2 \times 10^{-12}$  A
- Input impedance:  $\geq 1 \times 10^{12}$   $\Omega$
- Stability:  $\pm 0.002$  pH / 3h
- Temp. compensation range: (0 to 100) degrees Celsius

#### mV:

- Measuring range: -1999.9mV  $\sim$  0  $\sim$  1999.9 mV
- Resolution: 0.1 mV
- Accuracy:  $\pm 0.03\%$  FS

#### Temperature:

- Measuring range: (-10  $\sim$  110) degrees Celsius
- Resolution: 0.1 degrees Celsius
- Accuracy: 5  $\sim$  60 degrees, range:  $\pm 0.4$  degrees, other range:  $\pm 0.8$  degrees

#### Other Technical Parameters:

- Display: 5-inch white backlit LCD screen
- Data storage: 200 sets
- Power: DC 5V / 1A

- Communication connector: Micro USB & Standard USB
- Dimensions: 180 x 130 x 14 mm
- Weight: 290 g
- Calibration: 1, 2, 3 point

#### Working Conditions:

- Environment temperature range: 5 ~ 35 degrees Celsius
- Environmental humidity: <= 85%
- IP Grade: IP54

#### Meter Kits:

- pH meter
- Electrode holder
- Two in one electrode that consists of pH combination electrode and separated temperature probe.
- pH buffer solution
- Power adapter

| Type        | VIKING-PHTC              |   |
|-------------|--------------------------|---|
| pH          | Measurement range        | (-2.000 ~ 19.999)pH                             |
|             | Resolution               | 0,1/0,01 pH                                     |
|             | Accuracy                 | Electrode: ±0.02 pH                             |
|             | Input current            | ≤2×10 <sup>-12</sup> A                          |
|             | Input impedance          | ≥1×10 <sup>12</sup> Ω                           |
|             | Stability                | ±0.002 pH/3h                                    |
|             | Temperature compensation | (0 ~ 100)°C, auto; (-5 ~ 110)°C, auto or manual |
| mV          | Measurement range        | (-1999,00 ~ 1999,00) mV                         |
|             | Resolution               | 1 mV  |
|             | Accuracy                 | ±0,03% FS                                       |
| Temperature | Range                    | (-9,9 ~ 110)°C                                  |
|             | Resolution               | 0,1°C   |
|             | Accuracy                 | ±0,5°C  |

|                           |   |                                  |
|---------------------------|---|----------------------------------|
| <b>Calibration</b>        | 1, 2, 3 point, auto   |                                  |
| <b>Buffer</b>             | Europe & USA, NIST, standards   |                                  |
| <b>Other Parameters</b>   | Display   | 5-inch white backlit LCD screen  |
|                           | Data storage  | 200 sets                         |
|                           | Power   | 12 V (110-220, 50-60 Hz adapter) |
|                           | Communication interface   | USB, RS232, Bluetooth (optional) |
|                           | Dimension   | 180 x 130 x 14 mm                |
| <b>Working Conditions</b> | Weight  | 290g                             |
|                           | Temperature   | 5 ~ 40 °C                        |
|                           | Humidity  | 5-85%                            |
| <b>Meter Kits</b>         | IP grade  | IP54                             |
|                           | pH meter  |                                  |
|                           | Electrode holder  |                                  |
|                           | Two-in-one electrode that consists of pH combination electrode and temperature probe (glass filling or epoxy) |                                  |
|                           | pH buffer solution  |                                  |
| Power adapter             |   |                                  |

Please note

If this pH Meter does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.