

VIKING-PH600

Benchtop pH Meter · pH / mV / ORP / Temperature · 6.5" Color TFT · IP54

Advanced benchtop pH meter for precise routine and research measurements with **6.5" color TFT display**, **multi-point calibration (up to 5 points)**, **Auto-Read / Continuous / Timed modes**, **ATC/MTC** temperature compensation, **GLP data management** and **500 data sets storage**.

PH / MV / ORP / °C

6.5" COLOR TFT

AUTO-READ

TIMED / CONTINUOUS

5-POINT CALIBRATION

NIST/GB/DIN

IP54

Document type: **Technical Specification Sheet**

Format: **Landscape (Word/Outlook-ready)**



INSTRUMENT

VIKING-PH600 · COLO.Science

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VIKING-PH600 · benchtop pH meter

technical specification sheet

PH -2.000 → 20.000

MV -2000 → 2000

ORP MODE

TEMP -5 → 130°C

0.001 PH RESOLUTION

IP54

— Advanced pH / mV / ORP / temperature

workflows



general & performance specifications

| instrument identity | |
|----------------------|---|
| model | VIKING-PH600 |
| product number (SKU) | PRO6045 |
| brand / line | COLO.Science · COLO Lab Experts |
| instrument type | Benchtop pH / mV / ORP / Temperature meter |
| intended use | High-accuracy pH, ORP and temperature measurements in research, QC, education and environmental labs. |
| pH measurement | |
| pH range | -2.000 to 20.000 pH |
| resolution | selectable 0.1 / 0.01 / 0.001 pH |
| accuracy | ±0.002 pH |

| | |
|--|---|
| calibration points | up to 5 (1-5 points) |
| buffer groups | NIST, GB, DIN (customizable) |
| standard recognition | automatic, with user-defined buffers possible |
| electrode diagnostics | slope & offset display, calibration reminder |
| mV / ORP measurement | |
| mV range | -2000.00 to 2000.00 mV |
| resolution | 0.1 / 0.01 mV selectable |
| accuracy | ±0.03% FS |
| ORP mode | absolute mV or relative ORP |
| temperature measurement | |
| temperature range | -5 to 130 °C |
| unit | °C |
| resolution | 0.1 °C |
| accuracy | ±0.1 °C |
| measurement workflow & data | |
| reading modes | Auto-Read (Fast/Medium/Slow), Continuous, Timed |
| reading prompts | Reading, Stable, Locked |

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|---|--|
| endpoint function | Auto-Hold / stability criteria selectable |
| temperature compensation | ATC, MTC |
| data storage | 500 data sets (GLP-compliant) |
| data analysis | review, compare, recalc |
| reset | factory reset |
| inputs, display & protection | |
| pH electrode input | BNC (Q9) |
| temperature probe input | 6-pin Mini-DIN |
| display | 6.5" color TFT with backlight, touchscreen |
| auto shutdown | 1-60 min programmable, or off |
| IP rating | IP54 |
| outputs | USB (flash drive / printer / PC), RS-232 |
| power & physical | |
| power | AC Adapter, 100–240 V AC input, DC 12 V output |
| dimensions | 250 × 200 × 80 mm |
| weight | 1.5 kg (3.3 lb) |

key instrument features

| | |
|--------------------------------------|---|
| 6.5" color TFT touchscreen | Intuitive operation, backlight, clear graphics. |
| Multi-point calibration (1-5) | NIST/GB/DIN buffers + custom; slope & offset display. |
| Flexible reading modes | Auto-Read, Continuous, Timed with stability criteria. |
| GLP data management | 500 sets with logging, review, export via USB. |
| Electrode diagnostics | Calibration reminder, slope limit alert. |
| USB & RS-232 | Connect to PC, printer, or flash drive for data export. |
| IP54 | Splash protection for wet-bench use. |

typical laboratory applications

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|--|
| high-precision pH measurement in research & QC |
| ORP / redox monitoring (environmental, industrial) |
| titration preparation & buffer validation |
| pharmaceutical & biotech quality control |
| food & beverage (critical acidity checks) |
| education (advanced electrochemistry) |

included / typical delivery (reference)

- VIKING-PH600 benchtop pH meter
- E-201-L pH composite electrode
- T-818-L temperature probe (6-pin Mini-DIN)
- NIST pH standard solutions: 4.01 / 7.00 / 10.01 (50 mL each)
- COLO-3 electrode stand
- Touch pen (for touchscreen)
- AC adapter (100–240 V input, 12 V output)
- USB cable

options & notes

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|----------------------------------|--|
| buffers & accessories | Full range of NIST/DIN buffers, storage solutions, cleaning kits available. |
| electrode selection | Choose from COLO's wide portfolio for specific sample types (viscous, low ionic strength, organics). |
| software | Optional data transfer software for PC connection (RS-232 / USB). |
| calibration practice | Use fresh buffers and maintain temperature consistency for best accuracy. |




practical operation notes

| topic | recommendation | note |
|----------------|--|---|
| calibration | Use 3-5 points for critical work; monitor slope (95-105%) | Automatic buffer recognition; recalibrate daily for highest precision |
| temperature | Always use ATC probe for accurate pH; for MTC, measure sample temperature separately | ATC range: -5...130°C |
| electrode care | Rinse with distilled water; store in 3 M KCl; clean periodically | Prevents drift and prolongs life |
| data export | Use USB flash drive for quick transfer; RS-232 for printer or PC | GLP-compliant reports |

 **reference PDF:** VIKING-PH600.pdf

 **application guidance:** workflow-based electrode & buffer selection

 **maintenance:** electrode cleaning & periodic inspection

 **procurement:** binding spec = quotation package



Contact & Support

HEADQUARTERS ADDRESS

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Application guidance: tell us your sample type, required accuracy, and throughput.
We will propose the matching electrode configuration and accessories for your workflow.

QUICK CONTACT

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Manufacturer & configuration notice (important):

Specifications in this document are provided for general reference and may represent a typical configuration. COLO reserves the right to change technical specifications without notice.

For procurement and tender purposes, the **only valid and binding specification** is the official COLO quotation and the accompanying technical specification that is **engineering-approved**.