

VIKING-ISE400

Benchtop pH/Ion Meter • pH / mV / pX / Ion concentration / Temperature • 7.0" LCD • IP54 • GLP

VIKING-ISE400 Benchtop pH/Ion Meter is a high-accuracy benchtop pH / ion meter (± 0.002 pH / pX, ion ± 0.3 %) with up to 7-point ion calibration, GLP memory, USB and RS-232. It combines a 7.0" backlit LCD, pH -2.000 to 20.000 (± 0.002 pH), ion concentration from $1.000e-9$ to $9.999e+9$ (± 0.3 %), ion calibration in up to 7 points, a 500-result memory (GLP), USB and RS-232 connectivity and IP54 protection.

BENCHTOP PH/ION METER PH MV PX ION TEMPERATURE 7.0" LCD ± 0.002 PH

ISE ± 0.3 % GLP USB IP54

Document type: **Technical Specification Sheet**

Product: **VIKING-ISE400 Benchtop pH/Ion Meter**

SKU: **PRO4763**

Format: **A4 landscape • 5 pages**

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VIKING-ISE400 • Benchtop pH/Ion Meter

VIKING-ISE400

Benchtop pH/Ion Meter

Operation guide

Installation • Calibration • Measurement • Maintenance



► **Watch the operation video (10:15) • installation, settings, pH and ion calibration and measurement**

MODEL / SKU

**VIKING-ISE400
PRO4763**

ADDRESS / HQ

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VIKING-ISE400 • technical specification

High-accuracy benchtop ion meter for pH, mV, pX and ion concentration

PH ± 0.002 PH

PX ± 0.002 PX

ISE ± 0.3 %

ION CALIBRATION UP TO 7 POINTS

IP54

— Ion-selective measurement for the laboratory

Product Overview

Application profile

Water and wastewater: fluoride, nitrate, ammonium and chloride in drinking and waste water.

Food and agriculture: sodium, potassium, calcium and nitrate in food, soil extracts and fertilisers.

Pharma and chemistry: ion content of raw materials, solutions and products.

Education and research: pH, mV and ion methods on one benchtop instrument.

Design and handling advantage

Clear display: 7.0" LCD with backlight with Reading / Stable / Locked prompts.

Ion methods: Direct reading; linear or polyline calibration fit.

Flexible units: mol/L, mmol/L, g/L, mg/L, $\mu\text{g/L}$, ppm, ppb.

Data traceability: 500 results per parameter with date, time and GLP records.

Key features

pH: -2.000 to 20.000 pH, ± 0.002 pH, up to 5 points.

mV: -2000.00 to 2000.00 mV, ± 0.1 mV or ± 0.03 %.

pX: -2.000 to 20.000 pX, ± 0.002 pX, up to 7 points.

Ion: 1.000e-9 to 9.999e+9, ± 0.3 %, up to 7 points.

Temperature: -10 to 135 °C / 14 to 275 °F, ± 0.1 °C, ATC / MTC.

Connection: BNC (pH / ISE), banana (reference), 4-pin (temperature); USB, RS-232.

Core technical summary

Parameter	Specification
Model	VIKING-ISE400
SKU	PRO4763
Instrument type	Benchtop pH/Ion Meter
Display	7.0" LCD with backlight
pH range	-2.000 to 20.000 pH
pH accuracy	± 0.002 pH
Ion range	1.000e-9 to 9.999e+9
Ion accuracy	± 0.3 %
Ion calibration	up to 7 points
Protection	IP54

PH ACCURACY

± 0.002 pH

ION ACCURACY

± 0.3 %

ION CALIBRATION

up to 7 points

DATA MEMORY

500 results

Technical values are provided for product selection. The delivered configuration, electrode type and accessory set are confirmed in the official COLO.Science quotation.

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Technical Parameters

Parameter	Specification	Parameter	Specification
pH range	−2.000 to 20.000 pH	Ion methods	Direct reading; linear or polyline calibration fit
pH resolution	0.001 pH	Temperature range	−10 to 135 °C / 14 to 275 °F
pH accuracy	±0.002 pH	Temperature accuracy	±0.1 °C
pH calibration	up to 5 points	Temperature compensation	ATC / MTC
pH buffer recognition	NIST, DIN, GB, USA, MERCK, GOST	Reading modes	AutoRead (fast / medium / slow), timed, continuous
mV range	−2000.00 to 2000.00 mV	Reading prompts	Reading, Stable, Locked
mV accuracy	±0.1 mV or ±0.03 %	Display	7.0" LCD with backlight
pX range	−2.000 to 20.000 pX	Data memory	500 results per parameter, GLP
pX accuracy	±0.002 pX	Inputs	BNC (pH / ISE), banana (reference), 4-pin (temperature)
pX calibration	up to 7 points	Outputs	USB (PC), RS-232 (printer)
Ion range	1.000e-9 to 9.999e+9	Auto power-off	1–60 min or off
Ion units	mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb	Power supply	Power adapter, DC 20 V
Ion resolution	up to 4 significant digits	Protection	IP54
Ion accuracy	±0.3 %	Dimensions	242 × 195 × 68 mm
Ion calibration	up to 7 points	Weight	approx. 900 g

Specification notes

Electrodes: the meter is supplied without electrodes — the ion-selective and pH electrodes are chosen per application (page 4).

ISA: add ionic strength adjuster (ISA / TISAB) to standards and samples for stable, comparable readings.

Calibration: use standards that bracket the sample concentration; up to 7 points for the ion channel.

Higher model: for more accuracy, methods or connectivity see VIKING-ISE500.

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Electrodes and Accessories



JB-10

Magnetic stirrer JB-10

Stirrer with stand rod for homogeneous samples during ion measurement and addition methods.

Standard delivery



COLO-5

Electrode stand COLO-5

Flexible electrode arm with 360° rotation; holds the electrode above the beaker.

Standard delivery



PRO6237

Fluoride combined ISE PF-202-C

Fluoride (F^-) ion-selective electrode with built-in reference, BNC (Q9).

Optional



PRO4153

3-in-1 pH composite electrode E-301-QC

pH + reference + temperature in one body; Ag/AgCl, 0–14 pH, BNC (Q9) and 4-pin connector.

Optional



PRO6166

Temperature probe T-818-Q

316 stainless steel, $\Phi 4 \times 120$ mm, $-5 \dots 105$ °C; 4-pin connector for automatic temperature compensation.

Optional



PRO6240

Fluoride ISE PF-2-01

Fluoride (F^-) ion-selective electrode, 5–45 °C; used with a separate reference electrode.

Optional



PRO6175

Reference electrode 217-01 (double junction)

Saturated double-junction calomel reference electrode, U-shape terminal.

Optional



PRO6998

Thermal printer 771000

Prints measurement and calibration records (GLP).

Optional

More electrodes and accessories

SKU	Item	Use	Status
PRO6242	Chloride (Cl^-) ISE	Ion measurement	Optional
PRO6249	Nitrate (NO_3^-) ISE	Ion measurement	Optional
PRO7128	Fluoride ISE standard 0.1 mol/L, 250 mL	Calibration	Optional

The meter is delivered without electrodes. Combined ion-selective electrodes and the 3-in-1 pH electrode connect to the BNC and 4-pin inputs; half-cell ISEs use the banana reference input; standards and ISA solutions are ordered per ion. Standard delivery is confirmed in the quotation.

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VIKING-ISE400 standard delivery: meter, magnetic stirrer JB-10 and electrode stand COLO-5

Ordering information

Item	Value
Model	VIKING-ISE400
SKU	PRO4763
Instrument type	Benchtop pH/Ion Meter
Included	magnetic stirrer JB-10, electrode stand COLO-5
Electrodes	ordered per ion (not included)
Power supply	Power adapter, DC 20 V

Configuration checklist

Ions: which ions and at what concentration (mg/L, ppm, mol/L).

Sample matrix: interferences decide between direct reading and addition methods.

Electrodes: combined ISE or half-cell with reference, plus pH / temperature.

Documentation: GLP records, USB export or printer.

Need more?: see VIKING-ISE500.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-ISE400 is chosen where ± 0.002 pH / pX and up to 7-point ion calibration are needed, e.g. for low fluoride or sodium levels, with GLP records and printer output. COLO.Science helps you choose electrodes, standards and ISA solutions.

QUICK CONTACT

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 [Watch the operation video](#)

COLO.SCIENCE · ION METER CONFIGURATION SUPPORT

Need help choosing electrodes for your ions?

Tell us the ions, the sample matrix and the expected concentration. COLO.Science will confirm the electrodes, ISA solutions, standards and the VIKING-ISE400 configuration for your laboratory.

Web: colo.si

Ask us:

Price and current discount, delivery time, electrode selection for your sample, calibration standards, installation and operator training, spare electrodes and accessories — write to sales@colo.si or call us.

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