

# VIKING-M510T-A

Portable Multi-parameter Analyzer • pH / EC / ISE / Temperature • 4.3" touchscreen • IP67 • GLP

**VIKING-M510T-A Portable Multi-parameter Analyzer** is a research-grade portable touchscreen multi-parameter analyzer for pH, conductivity, ion concentration and temperature in one instrument, for the field and the laboratory. It combines a 4.3" colour touchscreen, pH  $\pm 0.002$  pH, conductivity  $\pm 0.5$  % FS, ISE  $\pm 0.3$  %, 1000-result GLP memory and IP67 protection.

PORTABLE MULTI-PARAMETER ANALYZER PH EC ISE TEMPERATURE 4.3" TOUCHSCREEN

$\pm 0.002$  PH EC  $\pm 0.5$  % FS GLP IP67

Document type: **Technical Specification Sheet**

Product: **VIKING-M510T-A Portable Multi-parameter Analyzer**

SKU: **PRO5918**

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VIKING-M510T-A • Portable Multi-parameter Analyzer



Standard electrode set • pH PRO4153 • EC PRO6154

MODEL / SKU

**VIKING-M510T-A  
PRO5918**

ADDRESS / HQ

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# VIKING-M510T-A • technical specification

Portable Multi-parameter Analyzer for pH, EC, ISE, Temperature

PH  $\pm 0.002$  pH    EC  $\pm 0.5$  % FS    ISE  $\pm 0.3$  %    IP67    — All key water parameters on one portable instrument

## Product Overview

### Application profile

**Water and wastewater:** pH, conductivity, ions in drinking, surface and waste water.

**Environment and aquaculture:** monitoring of rivers, lakes, wells and fish farms.

**Food, pharma and industry:** process water, solutions and quality control.

**Education and research:** several methods on one instrument instead of several meters.

### Design and handling advantage

**One instrument:** pH / EC / ISE / Temperature with separate electrode inputs.

**Clear display:** 4.3" colour touchscreen with guided menus for measurement, calibration and data.

**Calibration:** pH up to 8 points with buffer recognition, conductivity up to 5 points, ions up to 8 points.

**Data traceability:** 1000 results per parameter, GLP; USB 2.0 (flash drive, PC, scanner), Bluetooth.

### Key features

**pH:** -2.000 to 20.000 pH,  $\pm 0.002$  pH; mV  $\pm 0.1$  mV or  $\pm 0.03$  %, EH ORP mode.

**Conductivity:** 0.000  $\mu$ S/cm to 3000 mS/cm,  $\pm 0.5$  % FS; TDS 0.000 ppm to 1000 ppt.

**Ion:** pX  $\pm 0.002$  pX; 1.000e-9 to 9.999e+9,  $\pm 0.3$  %.

**Temperature:** -10 to 135 °C / 14 to 275 °F,  $\pm 0.1$  °C, ATC / MTC.

**Connection:** USB 2.0 (flash drive, PC, scanner), Bluetooth.

### Core technical summary

| Parameter          | Specification                     |
|--------------------|-----------------------------------|
| Model              | VIKING-M510T-A                    |
| SKU                | PRO5918                           |
| Instrument type    | Portable Multi-parameter Analyzer |
| Display            | 4.3" colour touchscreen           |
| pH accuracy        | $\pm 0.002$ pH                    |
| Conductivity range | 0.000 $\mu$ S/cm to 3000 mS/cm    |
| Ion accuracy       | $\pm 0.3$ %                       |
| Protection         | IP67                              |

PH ACCURACY

 $\pm 0.002$  pH

CONDUCTIVITY ACCURACY

 $\pm 0.5$  % FS

ION ACCURACY

 $\pm 0.3$  %

PROTECTION

IP67

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 / accuracy           | -2.000 to 20.000 pH; $\pm 0.002$ pH                               | Temperature compensation | ATC / MTC                                                      |
| pH calibration                | up to 8 points; USA, NIST, MERCK, JIS, GB, DIN                    | Reading modes            | AutoRead (fast / medium / slow), timed, continuous             |
| mV range / accuracy           | -2000.00 to 2000.00 mV; $\pm 0.1$ mV or $\pm 0.03$ %, EH ORP mode | Display                  | 4.3" colour touchscreen                                        |
| pX range / accuracy           | -2.000 to 20.000 pX; $\pm 0.002$ pX                               | Data memory              | 1000 results per parameter, GLP                                |
| Ion range / accuracy          | 1.000e-9 to 9.999e+9; $\pm 0.3$ %                                 | Management               | Users, calibration, electrodes, methods, data analysis         |
| Ion calibration               | up to 8 points                                                    | Inputs                   | BNC (pH / ISE), 4-pin (temperature / DO), 5-pin (conductivity) |
| Conductivity range / accuracy | 0.000 $\mu$ S/cm to 3000 mS/cm; $\pm 0.5$ % FS                    | Outputs                  | USB 2.0 (flash drive, PC, scanner), Bluetooth                  |
| Conductivity calibration      | up to 5 points                                                    | Auto power-off           | 300 / 600 / 1200 / 1800 / 3600 s or off                        |
| Resistivity range             | 5.00 $\Omega$ -cm to 100.0 M $\Omega$ -cm                         | Power supply             | Rechargeable Li battery; adapter 100-240 V AC / 5 V DC         |
| TDS range                     | 0.000 ppm to 1000 ppt                                             | Protection               | IP67                                                           |
| Salinity                      | NaCl, 0.0 to 80.0 ppt, $\pm 1$ ppt                                | Dimensions               | 90 × 255 × 40 mm                                               |
| Temperature range / accuracy  | -10 to 135 °C / 14 to 275 °F; $\pm 0.1$ °C                        | Weight                   | approx. 500 g                                                  |

### Specification notes

**Electrodes:** 3-in-1 pH electrode and conductivity cell are included; ion-selective electrodes are ordered per ion (page 4).

**Calibration:** pH buffers 4.01 / 7.00 / 10.01 and 1413  $\mu$ S/cm standard are included.

**Higher model:** for more parameters, accuracy or connectivity see VIKING-M510T.

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## Electrodes and Accessories



**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.

Standard delivery



**PRO6154**  
**Conductivity electrode DJS-1VTC (k = 1, ATC)**  
 2–20000 µS/cm, glass body, with temperature sensor, 0–80 °C, Φ12×120 mm; 5-pin connector.

Standard delivery



**PRO6122**  
**pH buffer set 4.01 / 7.00 / 10.01**  
 Standard pH buffer solutions, 50 mL each, for 3-point calibration.

Standard delivery



**PRO7007**  
**Conductivity standard 1413 µS/cm, 50 mL**  
 Calibration standard at 25 °C for cell-constant calibration.

Standard delivery



**Silicone protective case and wristband**  
 Shock-absorbing silicone sleeve and wristband for safe one-hand field use.

Standard delivery



**PRO7006**  
**Carrying case**  
 Protective case for the meter, electrode and buffers in field use.

Standard delivery



**PRO6237**  
**Fluoride combined ISE PF-202-C**  
 Fluoride (F<sup>-</sup>) ion-selective electrode with built-in reference, BNC (Q9).

Optional

### More electrodes and accessories

| SKU     | Item                                        | Use              | Status   |
|---------|---------------------------------------------|------------------|----------|
| PRO6242 | Chloride (Cl <sup>-</sup> ) ISE             | Ion measurement  | Optional |
| PRO6249 | Nitrate (NO <sub>3</sub> <sup>-</sup> ) ISE | Ion measurement  | Optional |
| PRO7128 | Fluoride ISE standard 0.1 mol/L, 250 mL     | Calibration      | Optional |
| PRO6163 | Polarographic DO electrode DO-958-Q         | Dissolved oxygen | Optional |

Standard delivery: 3-in-1 pH electrode PRO4153, conductivity electrode PRO6154, pH buffers and 1413 µS/cm standard. Ion-selective electrodes, standards and ISA solutions are ordered per ion. Standard delivery is confirmed in the quotation.

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VIKING-M510T-A standard delivery: analyzer, electrodes, standards, electrode holder, silicone case, wristband, touch pen and carrying case

#### Ordering information

| Item            | Value                                                                |
|-----------------|----------------------------------------------------------------------|
| Model           | VIKING-M510T-A                                                       |
| SKU             | PRO5918                                                              |
| Instrument type | Portable Multi-parameter Analyzer                                    |
| Electrodes      | pH PRO4153, EC PRO6154                                               |
| Standards       | pH 4.01 / 7.00 / 10.01, 1413 $\mu\text{S}/\text{cm}$                 |
| Also included   | electrode holder, silicone case, wristband, touch pen, carrying case |
| Power supply    | Li battery + 5 V DC adapter                                          |

#### Configuration checklist

**Parameters:** which of pH, EC, ions and DO you need to measure.

**Place of use:** field (portable, IP65 / IP67) or laboratory bench.

**Ions:** which ion-selective electrodes and standards.

**Documentation:** GLP records, USB export or printer.

**Need more?:** see VIKING-M510T.

#### MANUFACTURER AND SUPPORT

### COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

**Selection guidance:** VIKING-M510T-A is chosen when several water parameters are measured routinely and one instrument should replace separate meters. COLO.Science helps you choose electrodes, standards and ISA solutions.

#### QUICK CONTACT

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#### COLO.SCIENCE · MULTI-PARAMETER CONFIGURATION SUPPORT

### Need help configuring electrodes for your parameters?

Tell us the parameters, ions and samples. COLO.Science will confirm the electrodes, standards and the VIKING-M510T-A configuration for your work.

Web: [colo.si](https://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](mailto:sales@colo.si) or call us.

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