

TITRO4

Automatic Potentiometric Titrator • DET / MET / SET / MAT • LCD • GLP

TITRO4 Automatic Potential Titrator is an automatic potentiometric titrator for acid-base, redox, precipitation and complexometric titrations. It combines an LCD with guided operation, a replaceable burette (10 or 20 mL), DET, MET, SET and MAT titration modes, pH and mV measurement (0.00–14.00 pH, ± 1800.0 mV), automatic temperature compensation, 50 GLP result sets with the latest titration curve, printer output and PC control via USB / RS-232.

AUTOMATIC TITRATOR

DET / MET / SET / MAT

LCD • GUIDED OPERATION

± 0.01 PH

BURETTE 10 / 20 ML

GLP • 50 RESULTS

USB / RS-232

PH • PT • AG • REF

Document type: **Technical Specification Sheet**

Product: **TITRO4 Automatic Potential Titrator**

SKU: **PRO6103**

Format: **A4 landscape • 5 pages**

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ELECTROCHEMISTRY — OVERVIEW

ELECTROCHEMISTRY CATALOGUE

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TITRO4 • Automatic Potential Titrator



Burette and electrodes • 10 mL burette, platinum, silver and reference electrodes in the standard delivery

MODEL / SKU

**TITRO4
PRO6103**

ADDRESS / HQ

**Polje ob Sotli 4
SI-3255, Slovenia**

CONTACT

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TITRO4 • technical specification

Automatic potentiometric titration with guided operation and GLP records

PH 0.00–14.00

MV ±1800.0

BURETTE 1/14000

REPEATABILITY 0.2 %

4 TITRATION MODES

— Automatic titration for routine QC, water, food and teaching laboratories



Product Overview

Application profile

Acid-base titration: acidity, alkalinity, total acid / base with the pH electrode.

Redox titration: permanganate, iodometric and dichromate methods with the platinum electrode.

Precipitation titration: chloride and argentometric methods with the silver electrode.

Complexometric titration: hardness and metal ions with a suitable indicator electrode.

Key features

pH: 0.00–14.00 pH, resolution 0.01 pH, accuracy ±0.01 pH.

mV: –1800.0 to 1800.0 mV, resolution 0.1 mV, accuracy ±0.05 % FS.

Burette: 10 or 20 mL; accuracy ±0.025 / ±0.035 mL; repeatability 0.2 %.

Temperature: –5.0 to 105.0 °C, ±0.3 °C, automatic compensation.

Data: 50 GLP result sets and the latest titration curve; RS-232 printer, USB / RS-232 PC.

Core technical summary

Parameter	Specification
Model	TITRO4
SKU	PRO6103
Instrument type	Automatic potentiometric titrator
Titration modes	DET / MET / SET / MAT
Display	LCD with guided operation
pH accuracy	±0.01 pH
mV range	±1800.0 mV
Burette	10 mL (20 mL optional)
Data	50 results + latest curve
Outputs	USB, RS-232

Design and handling advantage

Automatic dosing: replaceable burette, resolution 1/14000, accuracy ±0.025 mL (10 mL).

Four modes: DET and MET equivalence point, SET preset endpoint and MAT manual titration.

Guided operation: LCD with smart guide; methods, curves and results displayed in detail.

Complete set: burette, five electrodes and temperature probe in the standard delivery.

PH ACCURACY

±0.01 pH

BURETTE RESOLUTION

1/14000

REPEATABILITY

0.2 %

MODES

DET • MET • SET • MAT

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
Model	TITRO4	mV range	−1800.0 to 1800.0 mV
SKU	PRO6103	mV resolution	0.1 mV
Titration modes	DET, MET, SET, MAT	mV accuracy	±0.05 % FS
Burette	10 mL standard, 20 mL optional	Stability	±0.3 mV / 3 h
Burette accuracy	±0.025 mL (10 mL), ±0.035 mL (20 mL)	Temperature	−5.0 to 105.0 °C, resolution 0.1 °C, ±0.3 °C
Burette resolution	1/14000	Display	LCD with guided operation
Repeatability	0.2 %	Data memory	50 results + latest titration curve, GLP
pH range	0.00–14.00 pH	Interfaces	RS-232 (printer), USB / RS-232 (PC control)
pH resolution	0.01 pH	Power supply	AC adapter 100–240 V AC, 24 V DC output
pH accuracy	±0.01 pH	Dimensions	340 × 400 × 400 mm
pH calibration	1–2 points	Weight	approx. 10 kg

Specification notes

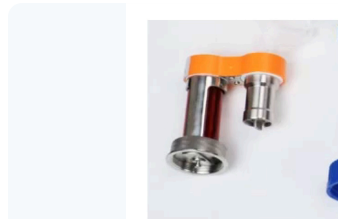
Electrode selection: pH electrode for acid-base, platinum for redox, silver for precipitation titration — see page 4.

Burette: choose 10 mL for small titrant volumes, 20 mL for higher consumption.

Documentation: results are stored GLP-compliant (50 sets with the latest curve), printed via RS-232 or transferred to a PC.

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Electrodes and accessories



10 mL

Burette unit 10 mL (with valve)

Replaceable high-accuracy burette with valve; 20 mL burette available.

Standard delivery



PRO6178

Platinum electrode 213-01

Platinum indicator electrode, BNC (Q9).

Standard delivery



PRO6179

Silver electrode 216-01

Silver indicator electrode, BNC (Q9).

Standard delivery



PRO6175

Reference electrode 217-01 (double junction)

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

Standard delivery



PRO6172

Reference electrode 232-01

Saturated single-junction calomel electrode, U-shape terminal.

Standard delivery



PRO6169

Temperature probe T-818-B-6

316 stainless steel, $\Phi 4 \times 120$ mm, $-5 \dots 105$ °C, BNC (Q6).

Standard delivery



PRO6180

pH titration electrode 982201

Conventional glass pH titration electrode, S7 head.

Optional



PRO6183

Silver titration electrode 981121

Combined silver electrode, PTFE body, S7 head.

Optional

More electrodes and accessories

SKU	Item	Use	Status
PRO6141	pH indicator (glass) electrode 231-01	Acid-base titration (standard delivery)	Standard delivery
PRO6121	pH buffer powder 4.01 / 7.00 / 10.01	pH calibration (standard delivery)	Standard delivery
PRO6181	Pollution-resistant pH titration electrode 982202	Dirty / oily samples	Optional
PRO6182	Non-aqueous pH titration electrode 982211	Non-aqueous titration	Optional
PRO6127	3 M KCl electrolyte powder	Refilling reference electrodes	Optional

Standard delivery: TITRO4 unit, 10 mL burette, pH glass electrode 231-01, platinum 213-01, silver 216-01, reference electrodes 232-01 and 217-01, temperature probe T-818-B-6 and NIST pH buffers (4.01 / 7.00 / 10.01). Standard delivery is confirmed in the quotation.

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TITRO4 automatic potentiometric titrator

Ordering information

Item	Value
Model	TITRO4
SKU	PRO6103
Instrument type	Automatic potentiometric titrator
Burette	10 mL (20 mL optional)
Electrodes	231-01, 213-01, 216-01, 232-01, 217-01
Also included	temp. probe T-818-B-6, NIST pH buffers
Options	20 mL burette, printer, special electrodes

Configuration checklist

Titration type: acid-base, redox, precipitation — determines the electrodes.

Titrant volume: 10 or 20 mL burette.

Samples: aqueous or non-aqueous, clean or contaminated.

Documentation: printer or PC for GLP reports; for 100 methods and touchscreen compare TITRO5.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: TITRO4 is selected when a laboratory needs automatic potentiometric titration with a complete electrode set at an entry price. For methods library, touchscreen and autosampler choose TITRO5; for manual titration TITRO20.

QUICK CONTACT

 colo.si

 sales@colo.si

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COLO.SCIENCE · TITRATOR CONFIGURATION SUPPORT

Need help choosing the right titrator or electrode?

Tell us the titration method, sample and throughput. COLO.Science will confirm the burette, electrodes and TITRO4 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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