

TITRO20

Manual Potential Titrator · Karl Fischer (KF) Titration Ready · SET & MAT Modes

The **TITRO20 manual potential titrator** from COLO.Science is a versatile titration system designed for manual potential titration applications. When exceptional precision is required, especially for trace moisture (0.001% and less), Karl Fischer (KF) titration is indispensable. The TITRO20 supports SET (preset endpoint titration) and MAT (manual titration) modes, pH calibration (1–2 point) and measurement.

MANUAL POTENTIAL TITRATOR

SET / MAT MODES

KARL FISCHER READY

PH 0.00 – 14.00

MV -1400 ~ 1400

1-2 POINT PH CALIBRATION

Product Number: **PRO6190**

Document type: **Technical Specification Sheet**

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



TITRO20 · Manual Potential Titrator

INSTRUMENT

TITRO20 · COLO.Science

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TITRO20 · manual potential titrator for Karl Fischer, SET endpoint & MAT titration technical specification sheet

MANUAL POTENTIAL TITRATION

SET (PRESET ENDPOINT)

MAT (MANUAL TITRATION)

KF TITRATION READY

PH 0.00 – 14.00

MV -1400 ~ 1400

— Exceptional precision for trace moisture (0.001% and less)

general & analytical specifications

instrument identity

Model	TITRO20
Product Number	PRO6190
Instrument type	Manual Potential Titrator
Measurement parameters	pH, mV (ORP), Titration (SET/MAT)
Intended applications	Karl Fischer (KF) titration for trace moisture, acid-base titration, redox titration, precipitation titration
Key feature	Exceptional precision for trace moisture (0.001% and less)

measurement ranges & resolution

pH Range	0.00 – 14.00 pH
mV Range	-1400 mV ~ 1400 mV
pH Resolution	0.01 pH
mV Resolution	1 mV

titration modes

SET Mode	Preset endpoint titration — ideal for routine Karl Fischer water content determination
MAT Mode	Manual titration — flexible operation for method development and specialized applications

Karl Fischer (KF) titration capability

Moisture determination	Trace moisture from 0.001% and less
KF titration type	Manual potential titration with endpoint detection
Typical applications	Pharmaceuticals, food, petrochemicals, polymers, cosmetics
Advantage	Exceptional precision for low-level moisture analysis

calibration & measurement

pH Calibration	1–2 point calibration
pH Measurement	Standard pH measurement capability
mV Measurement	ORP/Redox potential measurement

included accessories

Magnetic stirrer	PRO6175 — for homogeneous mixing during titration
Reference electrode	PRO6178 — for stable potential reference
Platinum electrode	PRO6179 — for redox titrations
Silver electrode	PRO6135 — for precipitation titrations (halides, etc.)
pH composite electrode	Standard combination pH electrode
NIST pH standard solutions	4.01, 7.00, 10.01 · 50 ml/vial

typical applications

Application area	Description
Karl Fischer moisture analysis	Trace water determination in pharmaceuticals, chemicals, oils, and solvents
Acid-base titration	Determination of acidity, alkalinity, and neutralization capacity
Redox titration	Analysis of oxidizing/reducing agents (e.g., vitamin C, peroxides)
Precipitation titration	Halide determination (chlorides, bromides, iodides)

product visual & system overview



TITRO20 · Manual potential titrator with magnetic stirrer and electrode set



Complete titration kit · Electrodes, stirrer, standards and accessories

key features overview

titration modes

SET mode	Preset endpoint titration — ideal for routine Karl Fischer water content determination with consistent results
MAT mode	Manual titration — flexible operation for method development, specialized applications, and educational use

measurement capabilities

pH measurement	0.00 – 14.00 pH · 1-2 point calibration with NIST standards
mV (ORP) measurement	-1400 mV ~ 1400 mV · For redox potential analysis

included electrodes & accessories

Accessory	Model	Application
Magnetic stirrer	PRO6175	Homogeneous mixing during titration
Reference electrode	PRO6178	Stable potential reference
Platinum electrode	PRO6179	Redox titrations
Silver electrode	PRO6135	Precipitation titrations (halides)
pH composite electrode	—	Standard pH measurement
NIST pH standards	4.01, 7.00, 10.01	pH calibration (50 ml/vial)

 **instrument:** TITRO20

 **modes:** SET (Preset Endpoint) / MAT (Manual)

 **KF ready:** Trace moisture 0.001% and less

 **included:** Stirrer + 4 electrodes + pH standards

Contact & Support

HEADQUARTERS ADDRESS

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Application guidance: Tell us your sample type, expected moisture range, and titration application (KF, acid-base, redox, precipitation). We will propose the matching TITRO20 configuration for your laboratory 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**.