AZA LAB / ANALYTICAL LABORATORY EQUIPMENT

AUTOMATIC TITRATOR

AZA1205 (BASIC) | AZA1205A (PRO) | TECHNICAL DATASHEET



PRODUCT OVERVIEW

The AZA120 / AZA120A automatic titration series is designed for programmable volumetric analysis in food, pharmaceuticals, water treatment, petroleum, chemicals, marine testing, environmental laboratories, electric power, education and research. The two configurations are separately identified below.

MODEL CONFIGURATIONS

AZA model	Titration type	Audit trail
AZA1205	Potentiometric	No
AZA1205A	Potentiometric + dead-stop	Yes

FUNCTIONS & APPLICATIONS

The brochure describes acid-base, redox, precipitation, complexometric, endpoint, constant, micro, volume and custom titration modes. Karl Fischer is mentioned in the general series description, but a complete Karl Fischer configuration is not established by the listed supply package.

SYSTEM DESIGN

Mixed synchronous inlet system: Four-channel sample/reagent introduction, allowing automatic titrant and auxiliary reagent addition.

Built-in burette: Integrated burette visible through the instrument window; 1, 5, 10 and 25 mL sizes available.

Cloud and PC operation: Ethernet-connected data storage and PC control.

Titration platforms: Independent titration stand or optional automated sample-handling systems.

TECHNICAL SPECIFICATIONS

AZA120 BASIC | AZA120A PRO | TECHNICAL DATASHEET

SIDE-BY-SIDE COMPARISON

Parameter	AZA1205 — BASIC	AZA1205A — PRO
Titration type	Potentiometric titration	Potentiometric and dead-stop titration
mV measurement range	−2000.0 to +2000.0 mV	−2000.0 to +2000.0 mV
mV resolution / accuracy	0.1 mV / 0.1 mV ±0.03% (supplier notation)	0.1 mV / 0.1 mV ±0.03% (supplier notation)
pH measurement range	−20.000 to +20.000 pH	−20.000 to +20.000 pH
pH resolution / accuracy	0.001 pH / 0.003 pH	0.001 pH / 0.003 pH
Temperature range	−5 to 120 °C	−5 to 120 °C
Temperature accuracy	±0.1 °C	±0.1 °C
Communications	2 × USB / RS232 / Ethernet	2 × USB / RS232 / Ethernet
Extended titration modules	Up to 4 (2 in standard package)	Up to 4 (2 in standard package)
Charging modules	Up to 4 (2 in standard package)	Up to 4 (2 in standard package)
Burette volumes	1 / 5 / 10 / 25 mL; 10 mL standard	1 / 5 / 10 / 25 mL; 10 mL standard
Burette resolution	1/150,000	1/150,000
Burette charging time	16 s at 100% charging speed	16 s at 100% charging speed
User access management	Customizable operation permissions	Customizable operation permissions
Audit trail	No	Yes
PC control	Yes	Yes
Electrode connectors	mV/pH; reference; PT1000 temperature	mV/pH; reference; PT1000 temperature; polarized
Titration stand / autosampler	1-position independent stand; optional autosamplers	1-position independent stand; optional autosamplers
Optional autosamplers	16 × 100 mL; 12 × 250 mL; 18 × 50 mL	16 × 100 mL; 12 × 250 mL; 18 × 50 mL
Packing dimensions	480 × 410 × 410 mm	480 × 410 × 410 mm
Gross weight	15 kg	15 kg





STANDARD SCOPE OF SUPPLY

AZA1205 | TECHNICAL DATASHEET

Included item	Supplier quantity
Automatic titrator main unit	1 pc
Magnetic stirring unit	1 pc
Titration unit	2 pcs
Fixing rod	1 set
Electrode support	1 set
Simple electrode support	1 set
Instructions	1 pc
Plastic tube	2 sets
Power cord	1 pc
Power adapter	1 pc
Titration	1 pc
USB transfer line	1 pc
DB9 transfer line	1 pc
USB disk	1 pc
Solution bottle	1 pc
Burette nozzle assembly	1 pc
Packing list	1 pc
Inspection certificate	1 pc
Electrode support plug	1 set
Glass electrode cap	2 pcs
pH standard buffer reagent, pH 4.00	5 sets
pH standard buffer reagent, pH 6.86	5 sets
pH standard buffer reagent, pH 9.18	5 sets
50 Ω resistance Q9 short connector	1 pc
Magnetic stirrer [supplier wording]	1 set
Four-core control line	3 pcs
Burette tip cap	1 pc
Titration pipeline fixing head	3 pcs
pH electrode	1 pc

OPTIONAL CONFIGURATION

Burettes: 1, 5, 10 or 25 mL (10 mL listed as standard).

Autosampler options: 16 positions × 100 mL, 12 positions × 250 mL or 18 positions × 50 mL.

STANDARD SCOPE OF SUPPLY

AZA1205A | TECHNICAL DATASHEET

Included item	Supplier quantity
Automatic titrator main unit	1 pc
Magnetic stirring unit	1 pc
Titration unit	2 pcs
Fixing rod	1 set
Electrode support	1 set
Simple electrode support	1 set
Instructions	1 pc
Plastic tube	2 sets
Power cord	1 pc
Power adapter	1 pc
Titration	1 pc
USB transfer line	1 pc
DB9 transfer line	1 pc
USB disk	1 pc
Solution bottle	1 pc
Burette nozzle assembly	1 pc
Packing list	1 pc
Inspection certificate	1 pc
Electrode support plug	1 set
Glass electrode cap	2 pcs
pH standard buffer reagent, pH 4.00	5 sets
pH standard buffer reagent, pH 6.86	5 sets
pH standard buffer reagent, pH 9.18	5 sets
50 Ω resistance Q9 short connector	1 pc
Magnetic stirrer [supplier wording]	1 set
Four-core control line	3 pcs
Burette tip cap	1 pc
Titration pipeline fixing head	3 pcs
T9605 Wi-Fi module	1 pc
pH electrode	1 pc

NOTES / ORDERING

The Pro version adds dead-stop titration, audit trail and polarized electrode connector.

Confirm the final electrode, module, burette and optional sampler configuration at order placement.

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