

HI903 | Quick Selling Guide



Petrochemical Analysis

Hydrocarbons, Crude Oil, Lubricating Oil, Solvents, and Petroleum Products

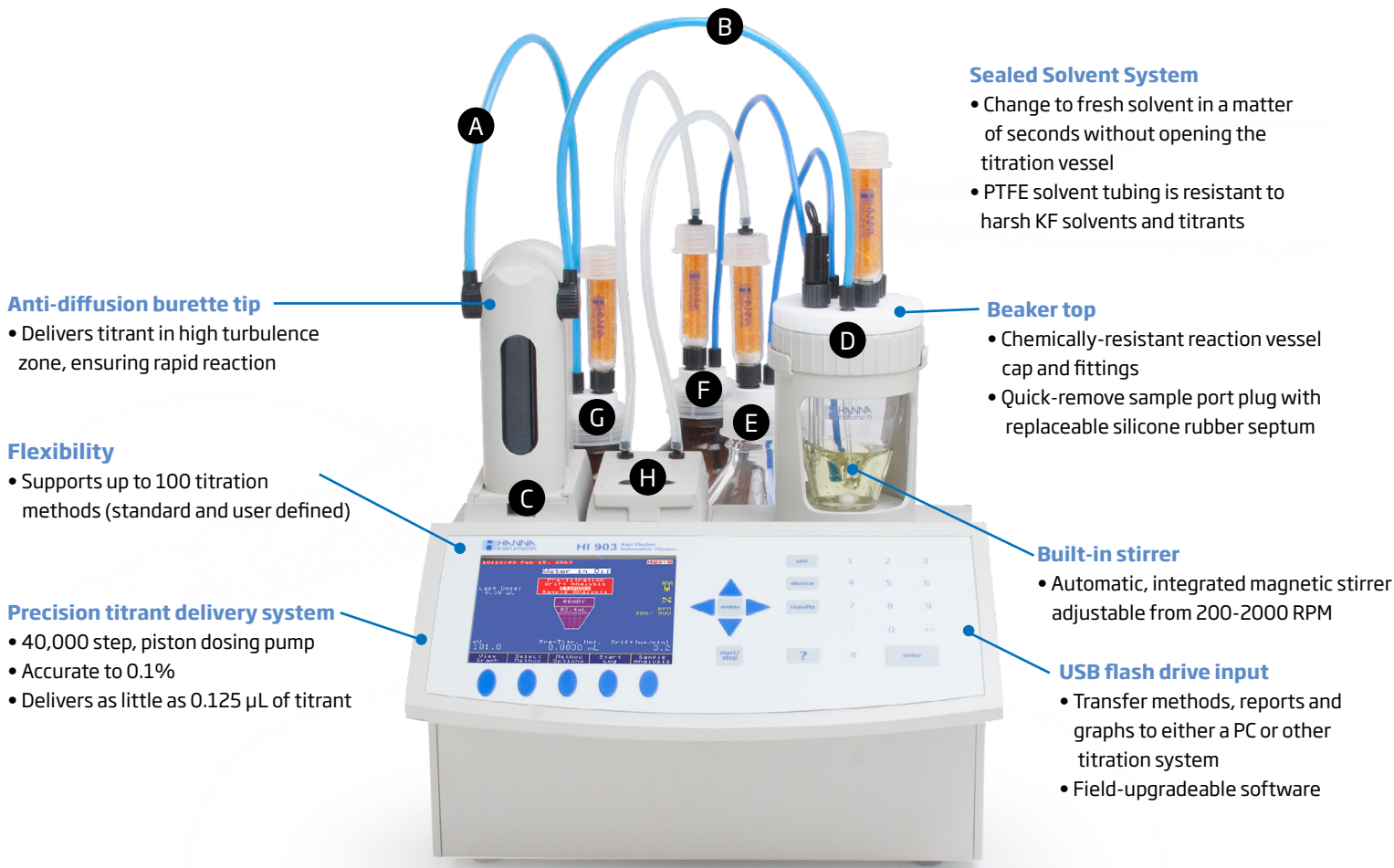
Food, Dairy and Beverage Analysis

Dairy, Honey & Molasses, Sauces, Salad Dressings, Spices, Sugars, Fats & Oils, Beverages, Fruits & Vegetables, Animal Feed, Chocolate, Coffee, Cocoa, Cereal Products, Baked Goods, Pasta, and Meat Products

Pharmaceutical Analysis

Ointments, Creams, Shampoo, Soaps, Topicals, Compounds, Oils, Dietary Supplements, and Vitamins

Measures 100 ppm to 100% water content



Anti-diffusion burette tip

- Delivers titrant in high turbulence zone, ensuring rapid reaction

Flexibility

- Supports up to 100 titration methods (standard and user defined)

Precision titrant delivery system

- 40,000 step, piston dosing pump
- Accurate to 0.1%
- Delivers as little as 0.125 µL of titrant

Sealed Solvent System

- Change to fresh solvent in a matter of seconds without opening the titration vessel
- PTFE solvent tubing is resistant to harsh KF solvents and titrants

Beaker top

- Chemically-resistant reaction vessel cap and fittings
- Quick-remove sample port plug with replaceable silicone rubber septum

Built-in stirrer

- Automatic, integrated magnetic stirrer adjustable from 200-2000 RPM

USB flash drive input

- Transfer methods, reports and graphs to either a PC or other titration system
- Field-upgradeable software

- A.** Aspiration Tube
- B.** Dispensing Tube

- C.** Burette Assembly
- D.** Beaker Assembly

- E.** Waste Bottle
- F.** Solvent Bottle

- G.** Titrant Bottle
- H.** Air Pump



Clip-Lock™ Exchangeable Burette System

It only takes a few seconds to exchange the reagent burettes to perform a different titration



Ultra-High Precision Titrant Delivery System

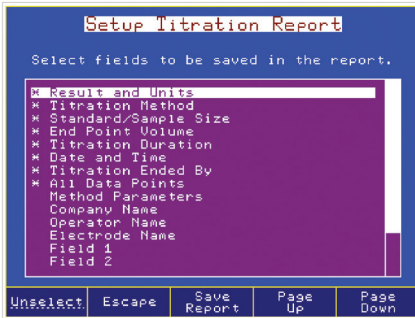
Optically regulated magnetic stirring, sophisticated endpoint determination, dynamic dosing and background drift correction algorithms



Easy Upgrades

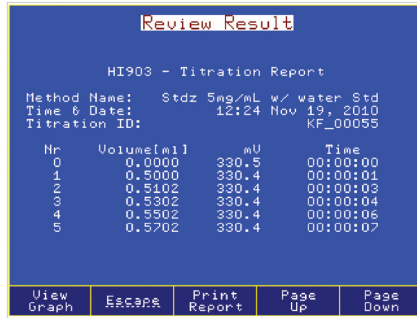
Field upgradable software via USB Convenient for saving data

On-screen Features



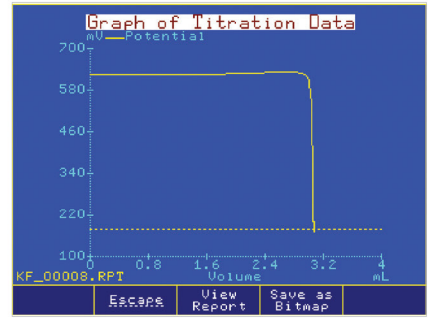
Customizable Reports

- Titration reports are fully customizable



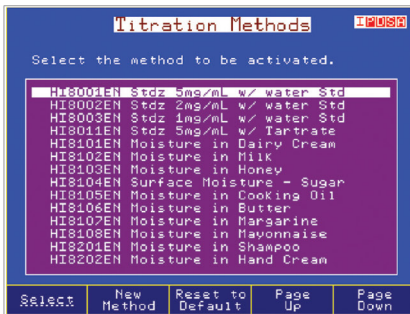
Titration Reports

- Titration results can be viewed on-screen or transferred to a USB storage device



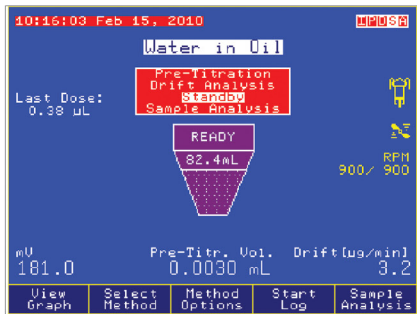
Titration Graphs

- Titration graphs can be viewed onscreen or saved as images and transferred along with titration report



Methods

- The HI903 comes with a standard method pack



Standby

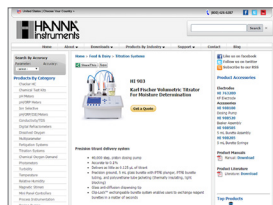
- The HI903 keeps the solvent dry between samples and corrects for water entering the cell (drift rate)



Results

- Titration results are displayed with links to average results or a user-customized report

HI903 Resources



[View Web Page Click Here >>](#)



[View Pdf Brochure >>](#)



[View Video >>](#)

HI 903 Specifications

Range	100 ppm to 100%
Resolution	1 ppm (0.0001%)
Result Units	%, ppm, mg/g, µg/g, mg, µg, mg/mL, µg/mL, mg/pc, µg/pc
Sample Type	liquid or solid

Determination

Pre Titration Conditioning	automatic
Background Drift Correction	automatic or user selectable value
Endpoint Criteria	fixed mV persistence, relative drift stop or absolute drift stop
Dosing	dynamic with optional pre-dispensing rate
Result statistic	mean, standard deviation

Clip Lock™ Exchangeable Burette System

Dosing Pump Resolution	1/40000 of the burette volume (0.125 µL per dose)
Dosing Pump Accuracy	±0.1% of full burette volume
Syringe	5 mL precision ground glass with PTFE plunger
Valve	motor driven 3-way, PTFE liquid contact material
Tubing	PTFE with light block and thermal jacketing
Dispensing Tip	glass, fixed position, anti-diffusing
Titration Vessel	conical with operation volume between 50-150 mL
Solvent Handling System	sealed system, integrated diaphragm air pump

Electrode

Type / Connection	dual platinum pin, polarization electrode / BNC
Polarization Current	1, 2, 5, 10, 15, 20, 30 or 40 µA
Voltage Range	2 mV to 1000 mV
Voltage Resolution	0.1 mV
Accuracy (@25°C/77°F)	±0.1 mV

External Stirrer

Type	magnetic, optically regulated, digital stirrer
Speed	200-2000 rpm
Resolution	100 rpm

Peripheral Devices

PC	easily view, transfer, print or delete methods and reports via HI900PC application
USB Flash Drive	easily upgrade software or transfer methods and reports between devices using a USB drive
Laboratory Analytical Balance	RS232 to connect any laboratory balance
Printer	print directly from the HI 903 to a printer via parallel port
Monitor	instrument status and titrations can be viewed on a larger screen using any VGA compatible external monitor
Keyboard	alphanumeric text can be entered using an optional PS/2 keyboard

Additional Specifications

Graphic Display	5.7" (320 x 240 pixel) color LCD
Titration Methods	up to 100 (standard and user) methods
Data Storage	up to 100 complete titration reports and drift rate reports can be stored
GLP Conformity	Good Laboratory Practice and instrument data storage and printing
Languages	English, Portuguese and Spanish
Enclosure Material	ABS plastic and steel
Keypad	polycarbonate
Power Supply	"-01" model: 115VAC, 50/60 Hz; "-02" model: 230VAC, 50/60 Hz;
Operating Environment	10 to 40°C, up to 95% RH
Storage Environment	-20 to 70°C, up to 95% RH
Dimensions / Weight	390 x 350 x 380 mm (15.3 x 13.8 x 14.9"); approximately 10 kg (22 lbs.)