

Бюретки цифровые CARL ROTH Titrette, OPUS, TitroLine 5000, Injekt, Injekt F

Технические характеристики

Алматы (7273)495-231
Ангарск (3955)60-70-56
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Череповец (8202)49-02-64
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Россия (495)268-04-70

Казахстан (772)734-952-31

Киргизия (996)312-96-26-47

Digital burettes



Digital burette Titrette®

BRAND.

Bottle-top burette for quick and reliable titration. High accuracy provides results within Class A error margins according to DIN EN ISO 385.

Properties:

- Smooth-acting gear for accurate trickle titration
- Lightweight and stable thanks to compact design
- Freely rotatable valve block, GL 45 thread
- Titrating tube is horizontally and vertically adjustable for flexible positioning
- Easy to use, no switching over between filling and titrating
- Can be removed for cleaning
- Can be calibrated without tools
- The next calibration due date can be stored
- The current displayed value can be stored with automatic stop
- Adjustable up to 20 ml to three decimal places
- DE-M approved

Parts in contact with the media:

Borosilicate glass, Al₂O₃, ETFE, PFA, FEP, PTFE, platinum-iridium, PP.

Permissible conditions of use:

Temperature +15 to +40 °C, vapour pressure up to max. 500 mbar, viscosity up to 500 mm²/s.

Technical specifications:

Art. No.	NN43.1	PP87.1	PP88.1	NN44.1	PP89.1	PP90.1
Nominal volume	10 ml	25 ml	50 ml	10 ml	25 ml	50 ml
Correctness	±10 µl	±18 µl	±30 µl	±10 µl	±18 µl	±30 µl
Variation coefficient	±5 µl	±6 µl	±10 µl	±5 µl	±6 µl	±10 µl
Operating temperature	+15 – +40 °C					
Adapter	GL 32, S 40, NS 29/32					
Suction tube length	170–330 mm					
Power supply	2 x AAA 1.5 V batteries					

Delivery incl. three PP thread adapters, quality certificate, telescopic filling tube made from FED, recirculation tube, two coloured light-protection windows, batteries.

Standard

Volume (ml)	Art. No.	Pack Qty.
10	NN43.1	1 unit(s)
25	PP87.1	1 unit(s)
50	PP88.1	1 unit(s)

With RS 232 port

Volume (ml)	Art. No.	Pack Qty.
10	NN44.1	1 unit(s)
25	PP89.1	1 unit(s)
50	PP90.1	1 unit(s)



Digital burette opus® titration

Hirschmann.

For motor-driven titration directly from the lab bottle. Microprocessor-controlled piston stroke system guarantees maximum accuracy and precise, reproducible results.

- Safe and easy handling via external touchscreen with clearly arranged menu keys; with quick-cal function for simple calibration of other temperatures or other media
- High media flexibility thanks to the highly-resistant, inert materials (see below)
- Media carrying parts are steam sterilisable (121 °C)
- Serial dispensing function allows integration in automated processes
- Method memory for nine different titration procedures
- Media feedback system for ventilation without loss of reagent
- Universal Luer connection for dry pipes, filters etc.
- GL 45 internal thread
- Can be battery- or mains-operated (battery not included in the delivery; please order separately)
- Volume pre-selection, fast titration and drop titration options available
- Intake and draining speeds can be set
- 4 languages (G, E, F, S) integrated by default

Materials in contact with media:

Borosilicate glass, ETFE, FEP, PTFE, Hastelloy

Control panel:

- Touchscreen: 3.5" with 320 x 240 pixel
- PC port: USB or RS 232
- Dimensions: W 110 x D 130 x H 55 mm
- Weight without battery: 230 g

Technical specifications:

Art. No.	PA73.1	LK08.1	LK09.1
Max. piston stroke	10 ml	20 ml	50 ml
Volume range	0,010 – 99,999 ml	0,10 – 200 ml	1,00 – 500 ml
Resolution	<1 µl		<2 µl
Correctness	±20 µl	±40 µl	±100 µl
Variation coefficient	±7 µl	±14 µl	±35 µl
Operating temperature	+4 – +40 °C		
Weight	660 g		
W x D x H	63 x 80 x 320 mm		
Adapter	GL 32, GL 38, S 40		
Mains connection	230 V, 50 Hz		

Delivery incl. three thread adapters, intake hose, return hose, titration output unit, valve assembly spanner, touchscreen control, power supply unit, data power cable, quality certificate according to DIN EN ISO 8655.

Version	Art. No.	Pack Qty.
10 ml	PA73.1	1 unit(s)
20 ml	LK08.1	1 unit(s)
50 ml	LK09.1	1 unit(s)



Digital burettes



Digital burette solarus®

Hirschmann.

Properties:

- Power supply via solar cell, i.e. no batteries, no charging
- Large display, display from 0.01 to 99.99 ml
- 2-button operator guidance
- "Quick-Cal" function for individual calibration
- Basic unit with A45 screw thread
- Bidirectional RS 232 interface
- Handwheels with soft-touch surface
- No reagent loss through return system
- Media-transporting parts including the output unit steam-sterilisable at 121 °C / 2 bar

Materials in contact with media:

Borosilicate glass, Al₂O₃ ceramic, ECTFE, FEP, PTFE and Hastelloy

Technical specifications:

Art. No.	HL7.1	Y063.1	Y064.1
Nominal volume	10 ml	20 ml	50 ml
Correctness	±30 µl	±40 µl	±100 µl
Variation coefficient	±10 µl	±20 µl	±50 µl
Adapter	GL 32, GL 38, S 40		
Suction tube length	310 mm		

Delivery incl. three thread adapters, output unit, intake hose, return hose and quality certificate according to DIN EN ISO 8655.

Volume (ml)	Art. No.	Pack Qty.	
10	HL7.1	1 unit(s)	
20	Y063.1	1 unit(s)	
50	Y064.1	1 unit(s)	



Titrator TitroLine® 5000

SI Analytics.

Very easy to use automatic titrator for pH and mV titration: Select saved standard method, connect electrodes and press Start. In just a few minutes, the sample is titrated and the result is displayed on the screen. Result can also be output as a PDF file on USB.

Technical specifications:

Art. No.	HAN4.1	HAN5.1	HAN6.1
Type	TitroLine® 5000		
Max. piston stroke	20 ml		
Volume range	0,000 – 9999.999 ml		
Display resolution	0,005 – 0,025 ml		
Dosing speed	40 ml/min		
Dosing accuracy	systematically 0.15%, incidentally 0.05%		
pH measuring range	-3 to +17		
Voltage measuring range	-1900 to +1900 mV		
Temperature measuring range	-30 to +115 °C		
pH resolution	0,01		
Voltage resolution	1 mV		
Temperature resolution	1 °C		
pH accuracy	±0.05		
Voltage accuracy	±1 mV		
Temperature accuracy	±0.5 °C		
Connection	pH: DIN 19262, °C: 2 x 4 mm banana plugs (NTC 30 kΩ, PT 1000)		
Calibration points	pH 1/2/3		
Port	2 x RS 232-C, 1 x USB A, 1 x USB B		
W x D x H	135 x 205 x 310 mm		
Mains connection	100–240 V, 50/60 Hz		

Set 1

Range of applications: Current redox titrations, such as iodine and peroxide value, permanganate index, COD and other applications (Set 1 + metal combination electrode Pt 62 RG)

Delivery incl. support rod, electrode/burette tip holder, hose kit and titration syringe, test tubes, magnetic stirrer, magnetic stirring rod, screw cap with GL 45 thread, NS 14.5/M8x1 adapter, drying tube, USB data cable and mains adapter.

Electrode not included, please order separately.

Version	Art. No.	Pack Qty.	€
Set 1	HAN4.1	1 unit(s)	3.198,15

Set 2

Range of applications: Current acid-alkali titrations such as acid capacity, nitrogen according to the Kjeldahl method and total acid in wine and beverages

Delivery incl. pH combination electrode A7780, buffer solution (pH 4.00 and 7.00), support rod, electrode/burette tip holder, hose kit and titration syringe, test tubes, magnetic stirrer, magnetic stirring rod, screw cap with GL 45 thread, NS 14.5/M8x1 adapter, drying tube, USB data cable and mains adapter.

Version	Art. No.	Pack Qty.	
Set 2	HAN5.1	1 unit(s)	

Titrator

Set 3

Range of applications: Titration of chloride and sodium chloride (salt) in foods such as mustard, cheese, milk, water and other samples

Delivery incl. metal combination electrode AgCl 62 RG with connecting cable, support rod, electrode/burette tip holder, hose kit and titration syringe, test tubes, magnetic stirrer, magnetic stirring rod, screw cap with GL 45 thread, NS 14.5/M8x1 adapter, drying tube, USB data cable and mains adapter.

Version	Art. No.	Pack Qty.	
Set 3	HAN6.1	1 unit(s)	

Accessories for TitroLine® 5000

SI Analytics.

Ph combination electrode A7780

With integrated temperature sensor and fixed cable length 1 m (DIN 19262 + banana 1x4 mm).

Suitable for	Art. No.	Pack Qty.	
TitroLine® 5000	HAN7.1	1 unit(s)	

Metal combination electrode AgCl 62 RG

With connector.

Delivery without connecting cable, please order separately.

Suitable for	Art. No.	Pack Qty.	
TitroLine® 5000	HAN8.1	1 unit(s)	

Metal combination electrode Pt 62 RG

With connector.

Delivery without connecting cable, please order separately.

Suitable for	Art. No.	Pack Qty.	
TitroLine® 5000	HAN9.1	1 unit(s)	

Connecting cable

Length 1 m (DIN 19262).

Suitable for	Art. No.	Pack Qty.	
metal combination electrodes	HAP0.1	1 unit(s)	



Disposable syringe Injekt®

B. Braun. Material: PP, PE.

Acc. to ISO 7886-1. Two-piece, individually packed. Black graduation, smudge-proof.

Scale extended beyond the nominal volume. Reliable piston stopper for problem-free collection to maximum volume.

Latex-, PVC- and silicone-free.

(1) With Luer fitting Sterile.

Medical device class Is

ID: 0123

Volume (ml)	Max. volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
2	3	0,1	0056.1	100 unit(s)	
5	6	0,2	0057.1	100 unit(s)	
10	12	0,5	0058.1	100 unit(s)	
20	24	1,0	0059.1	100 unit(s)	

(2) With Luer-Lock fitting

Sterile. Suitable for cytostatic agents

Medical device class Is

ID: 0123

Volume (ml)	Max. volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
2	3	0,1	EP95.1	100 unit(s)	
5	6	0,2	EP96.1	100 unit(s)	
10	12	0,5	EP97.1	100 unit(s)	
20	24	1,0	EP98.1	100 unit(s)	



S

Disposable syringe Injekt® F

B. Braun. Material: PP, PE. **Sterile.**

Acc. to ISO 7886-1. Two-piece fine dosage syringes. Individually packed, latex-free and PVC-free. Green piston rod, black graduation, smudge-proof.

With efficiency pin on the piston rod to reduce the remaining volume. Centric Luer fitting.

Medical device class Is

ID: 0123

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
1	0,01	T987.1	100 unit(s)	

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