

Комбинированные измерительные приборы CARL ROTH PM 2000, PC 7 Vio, SensoDirect 150, PC 50 VioLab, SevenGo Duo, SevenCompact Duo S213, SevenExcellence

Технические характеристики

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Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
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Улан-Удэ (3012)59-97-51
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Хабаровск (4212)92-98-04
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Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия (495)268-04-70

Казахстан (772)734-952-31

Киргизия (996)312-96-26-47



Combined measuring instruments



Combi hand-held measuring device PM 2000 set

ROTH SELECTION.

For measuring pH, Redox, conductivity and temperature.

- Automatic sensor detection
- Robust, coated aluminium housing
- Automatic pH-calibration
- Zero-point can be set separately for Redox electrodes

Technical specifications:

Art. No.	HT24.1
Type	PM 200 set
Parameters	pH, Conductivity, Temperature
pH measuring range	0 to 14
pH resolution	0,01 pH
pH accuracy	±0.01 pH
pH temp. compensation	automatic: 0 to +100 °C
Voltage measuring range	-1000 to +1000 mV
Voltage resolution	1 mV
Conductivity measuring range	0 µS/cm to 500 mS/cm
Conductivity resolution	0.01 µS/cm, 1.0 mS/cm
Conductivity accuracy	±2% (up to 200 mS), ±4% (up to 500 mS)
Reference temperature	20 / 25 °C
Temperature coefficient	0 – 3,9 %
Temperature measuring range	-50 to +150 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.2 °C
IP rating	65
L x W x H	138 x 85 x 35 mm
Weight	350 g
Power supply	3x lithium batteries Mignon 1.5 V

Delivery incl. pH/Redox pre-amplifier with temperature gauge, pH single-rod measuring cell pH 62/A7, conductivity probe with an integrated temperature gauge, batteries. Without Redox single-rod measuring cell, please order separately.

Type	Art. No.	Pack Qty.	
PM 200 set	HT24.1	1 unit(s)	



Combi hand-held measuring device PC 7 Vio

Dostmann.

For measuring pH, Redox, conductivity, TDS and temperature.

- Large LCD display with simultaneous display of measured value and temperature
- Automatic and manual temperature compensation
- Confirmation when a stable measured value is reached
- Automatic calibration with display of the calibrated ranges, storage of current calibration
- Manual calibration possible with user-defined buffer
- Reference temperature, adjustable cell constant and temperature coefficient
- 201T pH single-rod measuring cell with integrated temperature gauge for common aqueous samples. pH range: 0 to 14. Operating temperature 0 to +60 °C. Ceramic diaphragms, gel electrolyte, plastic shaft. Shaft length/Ø: 120/12 mm.
- 2301T conductivity sensor with integrated temperature gauge. Measuring range: 10 µS to 200 mS/cm. Operating temperature: 0 to +60 °C. Steel shaft, length/Ø: 120/12 mm.

Technical specifications:

Art. No.	HTE8.1
Type	PC 7 Vio
Parameters	pH, Redox, Conductivity, TDS, Temperature
pH measuring range	0 to 14
pH resolution	0,1 / 0,01 pH
pH accuracy	±0.01 pH
Voltage measuring range	-1000 to +1000 mV
Voltage resolution	1 mV
Voltage accuracy	±1 mV
Conductivity measuring range	0 µS/cm to 200 mS/cm
Conductivity resolution	automatic (0.01 µS/cm – 0.1 mS/cm)
Conductivity accuracy	±0.4 µmS/cm (0 to 19.99 µmS/cm), ±4 µmS/cm (20.0 to 199.9 µmS/cm), ±40 µS/cm (200 to 1999 µS/cm), ±0.4 mS/cm (2.00 to 19.99 mS/cm), ±4 mS/cm (20.0 to 200.0 mS/cm)
Reference temperature	+15 – +30 °C
Temperature coefficient	0 – 10,00 % / °C
Cell constant	0,1 / 1,0 / 10 cm ⁻¹
TDS measuring range	0 mg/l to 100 g/l
TDS resolution	automatic (0.01 mg/l – 0.1 g/l)
TDS accuracy	±0.2 mg/l (0 to 19.99 mg/l), ±2 mg/l (20.0 to 199.9 mg/l), ±20 mg/l (200 to 1999 mg/l), ±0.2 g/l (2.00 to 19.99 g/l), ±1 g/l (20.0 to 100.0 g/l)
Temperature measuring range	0 to +100 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.5 °C
Calibration points	1/2/3 (pH), 1/2/3/4 (EC)
Connection	BNC (pH), BNC (EC), Cinch (°C)
L x W x H	196 x 86 x 33 mm
Weight	300 g
Power supply	3x battery Mignon/AA 1,5 V

Delivery incl. 201T pH single-rod measuring cell, 2301T conductivity sensor, buffer solutions (pH 4.01/7.00; EC 1413 µS/cm / 12.88 mS/cm), storage solution, measuring beaker, transport case and batteries.

Type	Art. No.	Pack Qty.	
PC 7 Vio	HTE8.1	1 unit(s)	

Combined measuring instruments



Combi hand-held measuring device SensoDirect 150

Tintometer.

For measuring pH, Redox, conductivity, TDS, oxygen and temperature.

- Automatic/manual temperature compensation
- Min/Max and Hold functions
- Saves up to 16,000 data sets automatically/manually
- Auto Off after 10 min

Technical specifications:

Art. No.	YT94.1
Type	SensoDirect 150
Parameters	pH, Redox, Conductivity, TDS, Oxygen, Temperature
pH measuring range	0 to 14
pH resolution	0,01 pH
pH accuracy	±0.02 pH
pH temp. compensation	automatic: 0 to +65 °C, manual: 0 to +100 °C
Voltage measuring range	-1999 to +1999 mV
Voltage resolution	1 mV
Voltage accuracy	±1 mV
Conductivity measuring range	0.2 to 200 mS/cm
Conductivity resolution	automatic (0.001 S/cm – 0.1 mS/cm)
Conductivity accuracy	±0.01 mS/cm (0.200 to 2.000 mS), ±0.1 mS/cm (2.01 to 20.00 mS), ±1 mS/cm (20.1 to 200.0 mS)
Temperature compensation conductivity	Automatic: 0 to +60 °C
TDS measuring range	0 to 132000 ppm
TDS resolution	0.1 ppm (0 to 132 ppm), 1 ppm (132 to 1320 ppm), 10 ppm (1320 to 13,200 ppm), 100 ppm (13,200 to 132,000 ppm)
TDS accuracy	2.64 ppm (0 to 132 ppm), 26.4 ppm (132 to 1320 ppm), 264 ppm (1320 to 13,200 ppm), 2640 ppm (13,200 to 132,000 ppm)
O ₂ concentration measuring range	0 to 20 mg/l
O ₂ saturation concentration	±0.4 mg/l
O ₂ saturation measuring range	0 to 100%
O ₂ saturation accuracy	±0.7 %
O ₂ resolution	0.1 mg/l, 0.1 %
O ₂ temp. compensation	automatic: 0 to +50 °C
Salt correction	0 – 39 %
Air pressure compensation	0 – 8900 m
Calibration points	1/2/3 (pH, EC), 1 (Redox)
Data memory	16000 data sets
Connection	BNC (pH)
L x W x H	220 x 120 x 40 mm
Weight	625 g
Power supply	4x battery Mignon/AA 1.5 V

Delivery incl. pH plastic electrode with gel electrolyte, external temperature gauge, conductivity probe, buffer solutions (pH 4/7), plastic case and batteries. Without oxygen sensor and Redox electrode; please order separately.

Type	Art. No.	Pack Qty.
SensoDirect 150	YT94.1	1 unit(s)



Combi table-top multimeter PC 50 VioLab

Dostmann.

For measuring pH, Redox, conductivity, TDS and temperature.

- Large LCD display, backlit with simultaneous display of measured value and temperature
- Automatic and manual temperature compensation
- Automatic calibration with display of the calibrated ranges, storage of current calibration
- Manual calibration possible with user-defined buffer
- Confirmation when a stable measured value is reached
- Adjustable reference temperature, cell constant and temperature coefficient
- 201T pH single-rod measuring cell with integrated temperature gauge for common aqueous samples. pH range: 0 to 14. Operating temperature 0 to +60 °C. Ceramic diaphragms, gel electrolyte, plastic shaft. Shaft length/Ø: 120/12 mm.
- 2301T conductivity sensor with integrated temperature gauge. Measuring range: 10 µS to 200 mS/cm. Operating temperature: 0 to +60 °C. Steel shaft, length/Ø: 120/12 mm.

Technical specifications:

Art. No.	HXC0.1
Type	PC 50 VioLab
Parameters	pH, Redox, Conductivity, TDS, Temperature
pH measuring range	0 to 14
pH resolution	0,01 pH
pH accuracy	±0.01 pH
Voltage measuring range	-1000 to +1000 mV
Voltage resolution	1 mV
Voltage accuracy	±1 mV
Conductivity measuring range	0 µS/cm to 200 mS/cm
Conductivity resolution	automatic (0.01 µS/cm – 0.1 mS/cm)
Conductivity accuracy	±0.4 µmS/cm (0 to 19.99 µmS/cm), ±4 µmS/cm (20.0 to 199.9 µmS/cm), ±40 µS/cm (200 to 1999 µS/cm), ±0.4 mS/cm (2.00 to 19.99 mS/cm), ±4 mS/cm (20.0 to 200.0 mS/cm)
Reference temperature	+15 – +30 °C
Temperature coefficient	0 – 10,00 % / °C
Cell constant	0,1 / 1,0 / 10 cm ⁻¹
TDS measuring range	0 mg/l to 100 g/l
TDS resolution	automatic (0.01 mg/l – 0.1 g/l)
TDS accuracy	±0.2 mg/l (0 to 19.99 mg/l), ±2 mg/l (20.0 to 199.9 mg/l), ±20 mg/l (200 to 1999 mg/l), ±0.2 g/l (2.00 to 19.99 g/l), ±1 g/l (20.0 to 100.0 g/l)
Temperature measuring range	0 to +100 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.5 °C
Calibration points	1/2/3 (pH), 1/2/3/4 (EC)
Connection	BNC (pH), BNC (EC), Cinch (°C)
L x W x H	160 x 185 x 70 mm
Weight	550 g
Mains connection	100–240 V, 50/60 Hz

Delivery incl. 201T pH single-rod measuring cell, 2301T conductivity sensor, buffer solutions (pH 4.01/7.00; EC 1413 µS/cm / 12.88 mS/cm), storage solution, electrode holder and mains adapter.

Type	Art. No.	Pack Qty.
PC 50 VioLab	HXC0.1	1 unit(s)



Combined measuring instruments



Combi hand-held measuring device SevenGo Duo™

Mettler-Toledo.

For measuring pH, Redox, conductivity, TDS, salinity and temperature.

- Robust, waterproof housing
- Data memory for 99 GLP data sets
- Intelligent Sensor Management (ISM®) for automatic recognition of ISM® sensors and reading in calibration data

pH measurement:

- Automatic 1-/2-/3-point pH-calibration from four pre-defined points and a user-defined buffer set
- Automatic end point recognition, automatic buffer recognition and temperature compensation give reproducible results
- InLab® ExpertGo-ISM® pH single-rod measuring cell with integrated temperature gauge for aqueous samples, including emulsions, suspensions and solutions with proteins. PH-range: 0 to 14. Operating temperature: 0 to +100 °C. Protection rating: IP67. Perforated diaphragms, polymer-electrolyte, plastic shaft. Shaft length/Ø: 120/12 mm

Conductivity measurement:

- Single-point calibration with calibration standards (84/1413/12880 µS/cm)
- Linear temperature compensation
- Selectable reference temperature
- With robust conductivity sensor for medium to very high conductivity: InLab® 738-ISM® (IP67) with integrated temperature gauge. Measuring range: 0.01 to 1000 mS/cm. Plastic shaft, length/Ø: 120/12 mm. Operating range: 0 to +100 °C

Technical specifications:

Art. No.	LN42.1	LN41.1
Type	SG23-FK5	SG23-ELK
Parameters	pH, Redox, Conductivity, Temperature	
pH measuring range	0 to 14	
pH resolution	0,01 pH	
pH accuracy	±0.01 pH	
pH temp. compensation	automatic	
Voltage measuring range	-1999 to +1999 mV	
Voltage resolution	1 mV	
Voltage accuracy	±1 mV	
Conductivity measuring range	0 µS/cm to 500 mS/cm	
Conductivity resolution	Automatic (0.01 µS/cm – 1 mS/cm)	
Conductivity accuracy	±0.5% of the measured value	
Temperature compensation	linear	
Reference temperature	20 / 25 °C	
TDS measuring range	0 mg/l to 300 g/l	
TDS resolution	Automatic (0.1 mg/l – 1 g/l)	
Salinity measuring range	0 to 80 ppt	
Salinity resolution	0.01 ppt	
Temperature measuring range	-5 to +105 °C	
Temperature resolution	0.1 °C	
Temperature accuracy	±0.5 °C	
Calibration points	1/2/3 (pH), 1 (EC)	
Data memory	99 data sets	
Port	Infrared adapter (PC)	
ISM Technology	Yes	
IP rating	67	
L x W x H	220 x 90 x 45 mm	
Power supply	4x battery Mignon/AA 1.5 V	

Note: For ORP measurements, please order Redox electrodes separately.

SG23-ELK

Delivery incl. InLab® ExpertGo-ISM® pH single-rod measuring cell, InLab® 738-ISM® conductivity sensor, batteries and wrist straps.

Type	Art. No.	Pack Qty.
SG23-ELK	LN41.1	1 unit(s)

SG23-FK5

Delivery incl. InLab® Expert Go-ISM®pH single-rod measuring cell, InLab® 738-ISM® conductivity sensor, rubber-elastic protective case, buffer solutions (pH 4.01/7.00; EC 1413/12.88 mS/cm), sample bottles, carrying case, wrist strap and batteries.

Type	Art. No.	Pack Qty.
SG23-FK5	LN42.1	1 unit(s)

Combined measuring instruments



Combi table-top multimeter SevenCompact™ Duo S213

Mettler-Toledo.

- All important data at a glance, thanks to the high-resolution colour display (4.3") with large digits and clear symbols.
- Simultaneous measurement and display of pH value and conductivity is possible.
- Simple and intuitive to use; menus with complete sentences in 12 languages.
- Electrode arm is easy to operate with one hand; electrode can be positioned securely by moving it up and down.
- Calibration with predefined and user-specific buffers and buffer groups is possible; calibration memory with optional sensor lock setting available; quality of the most recent sensor calibration shown directly via pH sensor symbol.
- Comprehensive safety functions both for routine measurements and measurements under strict GLP specifications.
- With two operating modes: In Routine mode, it is not possible to delete data or change settings; in Expert mode (secured with PIN code), all functions can be used by an authorised user.
- Internal measured value memory: Saving by pressing key or timed (intermittent) saving (interval can be set between 1 s and 40 min).
- USB ports for exporting data via USB stick (datasets are exported as a text (.txt) file) or for connecting a USB keyboard.
- Intelligent Sensor Management (ISM®) for automatic recognition of ISM® sensors and reading in calibration data.
- Sustainable with highest Energy Star rating for the power supply (low energy loss, low heat generation) and environmentally friendly packaging.

Technical specifications:

Art. No.	1LE3.1	1LE4.1	1LE5.1
Type	S213 Basic	S213 Standard kit	S213 Water kit
Sensor	without	InLab® Expert-Pro-ISM®, InLab® 731-ISM®	InLab® Pure-Pro-ISM®, InLab® 741-ISM®
Parameters	pH, Redox, Conductivity, TDS, Salinity, Temperature		
pH measuring range	-2 to +20		
pH resolution	0,001 / 0,01 / 0,1 pH		
pH accuracy	±0.002 pH		
Voltage measuring range	-2000 to +2000 mV		
Voltage resolution	0,1 / 1 mV		
Voltage accuracy	±0,2 mV		
Conductivity measuring range	0 µS/cm to 1000 mS/cm		
Conductivity resolution	Automatic (0.001 µS/cm – 1 mS/cm)		
Conductivity accuracy	±0.5% of the measured value		
Reference temperature	+20 / +25 °C		
TDS measuring range	0 mg/l to 1000 g/l		
TDS resolution	Automatic (0.01 mg/l – 1 g/l)		
TDS accuracy	±0.5% of the measured value		
Salinity measuring range	0 to 80 psu		
Salinity resolution	Automatic (0.01 / 0.1 psu)		
Salinity accuracy	±0.5% of the measured value		
Temperature measuring range	-5 to +105 °C		
Temperature resolution	0.1 °C		
Temperature accuracy	±0.1 °C		
Calibration points	1/2/3/4/5 (pH), 1 (EC)		
Data memory	2000 datasets		
Port	RS 232, USB-A (printer), USB-B (PC)		
Connection	BNC (pH), Mini-DIN (EC), Cinch (°C)		
ISM Technology	Yes		
IP rating	54		
L x W x H	204 x 174 x 74 mm		
Power supply	Mains adapter		
Mains connection	100–240 V, 50/60 Hz		

Basic

Delivery incl. electrode holder and protective cover.

Without sensors, please order separately.

Type	Art. No.	Pack Qty.
S213 Basic	1LE3.1	1 unit(s)

Standard kit

For a wide range of applications including emulsions, suspensions, wastewater and solutions containing proteins and sulphides.

Delivery incl. InLab® Expert Pro-ISM® pH single-rod measuring cell, InLab® 731-ISM® conductivity sensor, buffer solutions (pH 4.01, 7.00, 9.21 and 10.00 / 1413 µS/cm and 12.88 mS/cm, 2x 20 ml of each), electrode holder and protective cover.

Type	Art. No.	Pack Qty.
S213 Standard kit	1LE4.1	1 unit(s)

Water kit

For samples with a low ion concentration such as ultrapure water and deionised water.

Delivery incl. InLab® Pure Pro-ISM® pH single-rod measuring cell, InLab® 741-ISM® conductivity sensor, buffer solutions (pH 4.01, 7.00, 9.21 and 10.00 / 1413 µS/cm and 12.88 mS/cm, 2x 20 ml of each), electrode holder and protective cover.

Type	Art. No.	Pack Qty.
S213 Water kit	1LE5.1	1 unit(s)



Combined measuring instruments

Combi table-top multimeter SevenExcellence™

Mettler-Toledo.

Modular professional system for measuring various parameters. Up to three modules can be connected to a basic unit in variable configurations. This means that up to three parameters can be measured in one or more samples.

- High-resolution 7-inch colour display with touchscreen control
- Intuitive menu structure with full-text display (in 10 languages)
- 4-level user management hierarchy with different access rights
- Automatic calibration
- Flexible buffer selection and make-up; pH buffers from various groups can be combined with one another
- Automatic and manual temperature compensation
- Direct measurement or individual analysis methods (for standard conditions)
- Individual, intermittent or series measurement
- Automatic calculation of statistical data (mean values, standard deviation)
- Intelligent Sensor Management (ISM®) for automatic recognition of ISM® sensors and reading in calibration data
- GLP support (PIN protection, GLP-compliant printouts containing all relevant data and monitoring of measurement limits)
- Radio clock for precise display of time and date
- Data storage (20,000 measuring values, 250 analyses)
- Data export with USB stick or LabX®direct PC software



Technical specifications:

Art. No.	YX44.1	YX45.1	YX46.1
Type	pH kit version S400	EC kit version S700	pH/EC kit version S470
Parameters	pH, Redox, Temperature	Conductivity, Salinity, TDS, Temperature	pH, Redox, Conductivity, Salinity, TDS, Temperature
pH measuring range	-2 to +20		-2 to +20
pH resolution	0,001 pH		0,001 pH
pH accuracy	±0.002 pH		±0.002 pH
Voltage measuring range	-2000 to +2000 mV		-2000 to +2000 mV
Voltage resolution	0,1 mV		0,1 mV
Voltage accuracy	±0,1 mV		±0,1 mV
Conductivity measuring range		0 µS/cm to 2000 mS/cm	
Conductivity resolution		automatic (0.001 µS/cm – 1 mS/cm)	
Conductivity accuracy		±0.5% of the measured value	
TDS measuring range		0 mg/l to 1000 g/l	
TDS resolution		automatic (0.01 mg/l – 1 g/l)	
TDS accuracy		±0.5% of the measured value	
Salinity measuring range		0 to 80 psu	
Salinity resolution		0.01 psu	
Salinity accuracy		±0.5% of the measured value	
Temperature measuring range	-30 to +130 °C		
Temperature resolution	0.1 °C		
Temperature accuracy	±0.1 °C		
Calibration points	1/2/3/4/5 (pH)	1 (EC)	1/2/3/4/5 (pH), 1 (EC)
Data memory	20,000 measuring values, 250 analyses		
Port	RS 232, USB-A (printer), USB-B (PC)		
Connection	BNC (pH), Cinch (°C)	Mini-DIN (EC), Cinch (°C)	BNC (pH), Mini-DIN (EC), Cinch (°C)
ISM Technology	Yes		
L x W x H	235 x 188 x 75 mm		
Weight	1120 g		
Mains connection	100–240 V, 50/60 Hz		

Combined measuring instruments

pH set S400

For measuring pH, Redox and temperature.

- InLab® RoutinePro-ISM® pH single-rod measuring cell with integrated temperature gauge for common aqueous solutions. pH-range: 0 to 14. Operating temperature 0 to +100 °C. Ceramic diaphragms, liquid electrolyte, glass shaft. Shaft length/Ø: 120/12 mm

Delivery incl. base unit with a pH module, InLab® Routine Pro-ISM® pH single-rod measuring cell, buffer solutions (pH 4.01/7.00/9.21/10.00), electrode holder, LabX®direct PC software and mains adapter.

Type	Art. No.	Pack Qty.	
pH kit version S400	YX44.1	1 unit(s)	

EC set S700

For measuring conductivity, TDS, salinity and temperature.

- InLab® 731-ISM® conductivity sensor with integrated temperature gauge for medium to very high conductivity. Measuring range: 0.01 to 1000 mS/cm. Operating temperature: 0 to +100 °C. Plastic shaft, length/Ø: 120/12 mm.

Delivery incl. base unit with a conductivity module, InLab® 731-ISM® conductivity sensor, buffer solutions (pH 1413/12.88 mS/cm), electrode holder, LabX®direct PC software and mains adapter.

Type	Art. No.	Pack Qty.	
EC kit version S700	YX45.1	1 unit(s)	

pH/EC set S470

For measuring pH, Redox, conductivity, TDS, salinity and temperature.

- InLab® ExpertGo-ISM® pH single-rod measuring cell with integrated temperature gauge for aqueous samples, including emulsions, suspensions and solutions with proteins. PH-range: 0 to 14. Operating temperature: 0 to +100 °C. Perforated diaphragms, polymer-electrolyte, plastic shaft. Shaft length/Ø: 120/12 mm.
- InLab® 731-ISM® conductivity sensor with integrated temperature gauge for medium to very high conductivity. Measuring range: 0.01 to 1000 mS/cm. Operating temperature: 0 to +100 °C. Plastic shaft, length/Ø: 120/12 mm.

Delivery incl. base unit with a pH-module, a conductivity-module, InLab® Expert Pro-ISM® pH single-rod measuring cell, InLab® 731-ISM® conductivity sensor, buffer solutions (pH 4.01/7.00/9.21/10.00; EC 1413 µS/cm / 12.88 mS/cm), electrode holder, LabX®direct PC software and mains adapter.

Type	Art. No.	Pack Qty.	
pH/EC kit version S470	YX46.1	1 unit(s)	

Алматы (7273)495-231
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Казань (843)206-01-48
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