

The SevenGo™ product range

Composed of high-calibre individuals

All of the products in the SevenGo™ family from METTLER TOLEDO are characterized by user-friendliness and excellent ergonomics. The instruments are suited for mobile measurements both in the field and in the production environment.

Routine tasks for SevenGo™ and SevenGo Duo™

The two single-channel instruments, SG2 SevenGo™ pH and SG3 SevenGo™ conductivity have all the basic functions required for performing routine measurements and they constitute an economical alternative to the SevenGo pro™ instruments. The SG23 SevenGo Duo™ pH/mV/conductivity meter is best suited for parallel routine measurements in dual-channel mode. In addition, it also offers Intelligent Sensor Management (ISM®).



Special applications for SevenGo pro™

The SevenGo pro™ pH/mV/ion (SG8), conductivity (SG7) and dissolved oxygen (SG6) instruments are ideal for taking measurements that need to be highly accurate. They are operated using softkeys with interactive function fields on the display, thus enabling flexible and convenient menu navigation. Important GLP characteristics, such as date/time and sensor/sample IDs, are stored for each measurement and – if required – appear on all printouts.

Comparison of functions within the SevenGo™ family

		SevenGo™			SevenGo pro™				
		SG2	SG3	SG23	SG6	SG7	SG8	SG68	SG78
pH	Measuring range	0.00 to 14.00		0.00 to 14.00	-	-	-2.000 to 20.000		
	Accuracy	+/-0.01		+/-0.01	-	-	+/-0.002		
Conductivity	Measuring range	-	0.1 µS/cm to 500 mS/cm	0.1 µS/cm to 500 mS/cm	-	0.01 µS/cm to 1000 mS/cm	-	-	0.01 µS/cm to 1000 mS/cm
	Accuracy	-	+/-0.5%	+/-0.5%	-	+/-0.5%	-	-	+/-0.5%
Ion	Measuring range	-		-	-	-	-1.00E ⁻⁹ to 9.99E ⁻⁹		
	Accuracy	-		-	-	-	+/-0.5%		
Oxygen	Measuring range	-	-	-	0.0 to 600%	-	-	0.0 to 600%	-
	Accuracy	-	-	-	+/-0.5%	-	-	+/-0.5%	-
Dual-channel measurement		-	-	•	-	-	-	•	•

For a table with more information and the complete range of functions, see page 12; for the complete specifications, see pages 13 – 16.



Reliability and flexibility with SevenGo Duo pro™

The SG78 and SG68 SevenGo Duo pro™ instruments allow simultaneous determination and display of two electrochemical parameters with highest possible accuracy. They have the same comprehensive GLP functions as their SevenGo pro™ counterparts. In addition, the SevenGo Duo pro™ instruments have extra security functions, such as Intelligent Sensor Management (ISM®), PIN-protected device logon and PIN-protected system settings.

Standard equipment for the SevenGo™ kit versions

	B Measuring instrument only	ELK Electrode kit	FK2 1.8 m field kit	FK5 5 m field kit	FK10 10 m field kit	ASK Assistant kit
Measuring instrument	•	•	•	•	•	•
IP67 sensor with 1.8 m fixed cable and clip		•	•			•
IP67 sensor with 5 m fixed cable and clip				•		
IP67 sensor with 10 m fixed cable and clip					•	
Field Compact Case, 4 calibration bottles and calibration sachets (pH: 6 pcs; conductivity: 4 pcs)			•	•	•	
Compact Case, 4 calibration bottles and calibration sachets (pH: 6 pcs; conductivity: 4 pcs)						•
ErGo™ (field assistant)						•

Always included in the standard equipment: Wrist strap, 4 AA batteries, operating instructions, test certificate, and declaration of conformity

SevenGo™ and SevenGo Duo™

Ergonomic analysis

- **Rapid and easy routine measurements in single- or dual-channel mode**
- **Determination of pH/mV and or conductivity/salinity/TDS/specific resistance**
- **Excellent ease of operation thanks to high contrast display with large characters**
- **Reproducible results owing to automatic end point recognition**

SevenGo™ and SevenGo Duo™ –

Working in the field becomes a pleasure

SevenGo™ and SevenGo Duo™ combine ease-of-use, quality, and reliable measurement functions. The instruments are designed in such way, that a single keystroke triggers a calibration run, a measurement or allows access of stored results or system settings.

At a glance

The large SevenGo™ display shows all relevant settings and highlights the most important items. You can read the measurement value and check the state of the electrode at a glance. On the SevenGo Duo™, the results of parallel measurements appear in alternating fashion on the display.

SevenGo™ electrode clip

The rotatable electrode clip can be attached on the left, right or on both sides of all instruments. It allows measurements to be taken with just one hand and is a convenient, space-saving way of storing electrodes.

An ergonomic masterpiece

SevenGo™ fits neatly into your hand, regardless of whether you are right- or left-handed. The size of the buttons reflects their importance. SevenGo™ is so easy to use you can really save time.





Field Compact Case

Transport protection and workplace

The SevenGo™ cases for the field kit (FK) and assistant kit (ASK) provide lots of space for all important accessories such as cables and electrodes. Choose the case that suits your requirements.



Compact Case

Field Compact Case (FK): This case provides space for two electrodes with up to 10 m cable length.

Compact Case (ASK): This case provides safe storage for all required tools including the Ergo™.



Rubber holster

This practical cover provides optimum impact protection for the device. You can naturally still attach the electrode clip and change the batteries without needing to remove the protective rubber-elastic cover.

Intelligent Sensor Management (ISM®)

ISM® provides the SevenGo Duo™ with a sophisticated new concept. It means that the user automatically works with the most up-to-date data for the sensor.

Reproducibility

The most important METTLER TOLEDO functions, such as automatic end point recognition and automatic buffer recognition, are naturally also integrated into our routine devices to make operating our instruments as convenient as possible.



IP67 Watertight and dustproof

The SevenGo™ family meets the requirements of IP67. This applies to the entire measurement system as well as to the meters themselves. This means that the instruments are equipped for the most adverse usage conditions.

What is IP67?

The IP (Ingress Protection) norm code consists of two digits: the 6 indicates that SevenGo™ is completely dustproof. The number 7 means that SevenGo™ is watertight for 30 minutes at a depth of 1 meter.

SevenGo™ in 8 models

Numerous functions and specifications

Overview of functions and equipment		SevenGo™ models			SevenGo pro™ models				
		SG2	SG3	SG23	SG6	SG7	SG8	SG68	SG78
pH/ion	Calibration points	3		3			5	5	5
	Predefined pH buffer groups	4		4			6	7	7
	User-defined pH buffer group	•		•			•	•	•
	Automatic pH buffer recognition	•		•			•	•	•
	Linear calibration mode	•		•			•	•	•
	Segmented calibration mode						•	•	•
	Choice of number of digits						•	•	•
	Choice of ion unit (mg/L, mmol/L, mol/L, %, ppm)						•	•	•
	Choice of stability criteria (strict, normal, fast)							•	•
Conductivity	Calibration points		1	1		1			1
	Predefined conductivity standard		3	3		3			5
	User-defined conductivity standard					•			•
	Manual cell constant entry		•	•		•			•
	Linear temperature compensation		•	•		•			•
	Non-linear temperature compensation					•			•
	Choice of reference temperature (20 °C, 25 °C)		•	•		•			•
Oxygen	Calibration points				2			2	
	Predefined oxygen standards				1			1	
	Choice of pressure unit (mbar, hPa, Torr, Atm)				•			•	
Measurement	Automatic/manual pressure compensation				•			•	
	Automatic and manual end point recording	•	•	•	•	•	•	•	•
	Time-dependent end point recording				•	•	•	•	•
	Serial measurements in user-defined time interval				•	•	•	•	•
	Automatic storage of measurements				•	•	•	•	•
	Manual storage of measurements	•	•	•	•	•	•	•	•
	ATC/MTC	•	•	•	•	•	•	•	•
Safety	Intelligent Sensor Management (ISM®)			•				•	•
	Time and date				•	•	•	•	
	Routine/expert mode				•	•	•	•	•
	GLP data storage	30	30	99	200	200	200	500	500
	Calibration data storage	•	•	•	•	•	•	•	•
	Calibration reminder				•	•	•	•	•
	Sensor ID				•	•	•	•	•
	Sensor SN							•	•
	Sample ID				•	•	•	•	•
	User ID							•	•
	User-defined alarm limits							•	•
	PIN protection							•	•
	Security	Dual-channel measurement			•				•
Dual-channel display								•	•
Backlit display					•	•	•	•	•
Infrared interface					•	•	•	•	•
Softkey menu navigation					•	•	•	•	•
Multilingual interface (10 languages)								•	•
Alphanumeric entry								•	•
Acoustic signal				•				•	•
Extensive filter functions								•	•
LabX® direct pH software (compatibility)					•	•	•	•	•
Instrument self-test		•	•	•	•	•	•	•	•
Watertight and dustproof (IP67)		•	•	•	•	•	•	•	•

SevenGo™ pH – SG2

pH Meter (IP67) routine use

- Single-channel instrument for pH or mV measurements
- Automatic end point and buffer recognition and temperature compensation
- 3-point calibration with predefined or user-defined buffers
- Data storage for 30 GLP data records

SevenGo™ SG2	Measuring range	Resolution	Accuracy
pH	0.00 to 14.00	0.01	±0.01
mV	-1999 to 1999	1	±1
Temperature	-5.0 to 105 °C	0.1 °C	±0.5 °C
Sensor inputs	BNC (10 ¹² Ω); NTC 30 KΩ (both IP67)		
Outputs	--		
Power supply	4 1.5 V AA batteries or 1.3 V NiMH accumulators		
Operating conditions	0 to 40 °C, 5 to 85% rel. humidity (non-cond.)		
Size/weight	220 x 90 x 45 mm/325 g (without batteries)		

Order info	Description and sensors	Order No.
SG2-B	Instrument only	51302521
SG2-ELK	Electrode kit with InLab®413 SG (IP67, 1.8 m cable)	51302522
SG2-FK	Field kit with InLab®413 SG (IP67, 1.8 m cable)	51302523
SG2-ASK	Assistant kit with InLab®413 SG (IP67, 1.8 m cable)	51302525

SevenGo™ – SG3

Conductivity meter (IP67) for every-day use

- Single-channel instrument for measuring conductivity, TDS (Total Dissolved Solids), salinity, and specific resistance
- Predefined conductivity standards: 84 µS/cm, 1413 µS/cm or 12.88 mS/cm
- Linear temperature compensation
- Data storage for 30 GLP data records

SevenGo™ SG3	Measuring range	Resolution	Accuracy
Conductivity	0.01 µS/cm to 500 mS/cm	0.01 to 1	±0.5%
Temperature	-5.0 to 105 °C	0.1 °C	±0.2 °C
TDS	0.01 mg/L to 300 g/L	0.01 to 1	±0.5%
Spec. resistance	0.00 to 100.0 MΩcm	0.01 to 0.1	±0.5%
Salinity	0.00 to 80.0 ppt	0.01 to 0.1	±0.5%
Sensor inputs	LTW 7-pin (IP67)		
Outputs	--		
Power supply	4 1.5 V AA batteries or 1.3 V NiMH accumulators		
Operating conditions	0 to 40 °C, 5 to 85% rel. humidity (non-cond.)		
Size/weight	220 x 90 x 45 mm/325 g (without batteries)		

Order info	Description and sensors	Order No.
SG3-ELK	Electrode kit with InLab®738 (IP67, 1.8 m cable)	51302531
SG3-FK2	Field kit with InLab®738 (IP67, 1.8 m cable)	51302532
SG3-FK10	Field kit with InLab®738 (IP67, 10 m cable)	51302533
SG3-ASK	Assistant kit with InLab®738 (IP67, 1.8 m cable)	51302534

SevenGo Duo™ – SG23

pH/conductivity meter (IP67) for routine use

- Dual-channel instrument for determining pH, mV, conductivity, TDS (Total Dissolved Solids), salinity, and specific resistance
- 3-point pH calibration with predefined or user-defined buffers
- Intelligent Sensor Management (ISM®)
- Data storage for 99 GLP data records

For specifications, see SG2 and SG3 (exception: Weight: 357 g without batteries).

Order info	Description and sensors	Order No.
SG23-B	Instrument only	51302600
SG23-ELK	Electrode kit with InLab® Expert Pro-ISM and InLab®738-ISM (both IP67, 1.8 m cable)	51302601
SG23-FK2	Field kit with InLab® Expert Pro-ISM and InLab®738-ISM (both IP67, 2 m cable)	51302602
SG23-FK5	Field kit with InLab® Expert Pro-ISM and InLab®738-ISM (both IP67, 5 m cable)	51302603