765 Laboratory pH Meter



Quality assurance does not stop at your lab door.

To make reliable pH measurements easier than ever, Knick has equipped the Model 765 Laboratory pH Meter with an exemplary package of safety functions.

Fullcheck®

automatically checks the device functions during power-on. Also during operation, a complete instrument

check can be carried out at a single keystroke. Here, also display and keypad are checked besides the electrical characteristics.

Record printouts

With record printouts of the device self-test, the calibration, and the parameter settings, it is possible (as part of quality management to ISO 9000 and GLP) to document the serviceability and the regular maintenance and calibration of the unit.

Sensoface®

checks the electrode and provides information on the electrode condition. The zero, slope, response time, and glass impedance of the electrode as well as the calibration interval are evaluated.

Calimatic®

automatically recognizes the right buffer. It allows calibration at the stroke of a key, providing ease of use and – above all – safety.

You simply immerse the electrode in two buffers of the selected set, no matter which one you take first, and press the cal key. The meter automatically recognizes the buffer and calibrates itself. It does not matter which buffer solution is taken first.

Trueline®

delivers a calibrated analog recorder signal, of course electrically isolated.

This provides you with a true pH signal, calibrated for the electrode and without disturbing quantizing levels, permitting undistorted recording of pH curves.

Sockets

Robust gold plated sockets are standard equipment.

EMC

EMC design protects the meter from electromagnetic interferences, ensuring reliable measurement results even under unfavorable conditions.



DELTA LABO

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Numerous practical features allow comfortable and safe pH measurement.

Temperature compensation manual or automatic

Temperature compensation is either automatic with Pt 100 or Pt 1000 temperature probes or manual, as selected.



Standard RS 232 interface

Via the standard RS 232 interface your data can be immediately processed by a computer. Even direct output to a printer is no problem.

Displaymatic® for easier reading

Displaymatic® facilitates readout. If the measured signal changes rapidly, the running characters are blanked in order to allow easy reading. This allows you to read the currently measured value without problems.

Warranty 3 vears!

Defects occurring within 3 years from delivery date shall be remedied free of charge at our plant (carriage and insurance paid by sender).

Sensors and accessories: 1 year

Easy-to read LED display for two measured values

The large, bright LED display allows simultaneous readout of two measured values, such as pH and temperature. LED display for alphanumeric characters allows.



Double insulation provides electrical safety in wet locations

The well-designed enclosure has proved successful in practical use. A waterproof membrane keyboard and drain grooves protect the meter from moisture. The robust, stainless steel covered enclosure resists even strong mechanical stress.

The facts

- Fullcheck® automatic device test
- Records for QM documentation to ISO 9000 and GLP
- Trueline® calibrated analog recorder output, galvanically isolated
- Electrode monitoring with Sensoface® icons
- Automatic calibration with patented Calimatic®
- EMC to NAMUR
- Electrode statistics
- RS 232 interface for computer and printer
- Displaymatic®
- Two user-defined measured value displays, simultaneous
- Dead-stop operation
- Self-contained clock
- Liquid-proof membrane keypad
- Robust enclosure
- IP 54 protection
- 3-year warranty

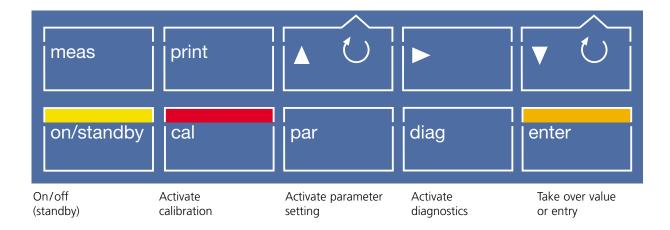
Keypad

Exit function and return to measuring mode

Print currently measured values or function data

Select line, edit value or select variable Select parameter or position

Select line, edit value or select variable



Record printouts

Records of parameter setting, calibration, and diagnostics are particularly helpful for QM documentation to ISO 9000 and GLP.

The records can be printed out directly to any commercially available printer with a serial port at the press of a key.

Serial Mumber: Software Uersion: Hardware Version: Options :	81125464 3.3 11
tanual Temperature: Sensoface: Displaymetic: Buffer Set: Cal Timer: Cal Timer: Baud Rate: Baud Rate: Data Bits/Parity: Protocol: Interface: Printer Timer:	25.8CEL On Off -81- 48h pH 4988 7 Even Xon/Xoff Printer 8.8ein
Time! Date: Year:	12:00 15.81. 2003

Serial Mumber: Software Version: Hardware Version: Options :	80125464 3.3 11
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Zero Point/SI EL Response T Glass Ispedan Drycheck: Cal Tiser:	opel ++ isel ++ cel ++ ++
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Next Calibration in	6

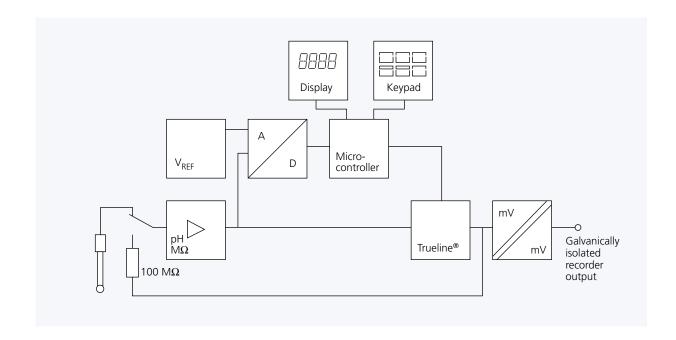
Fullcheck® device self-test

For the self test, the electrode is automatically switched off and the input internally connected to the recorder output over a 100 MOhm resistor.

The microcontroller sends defined voltage steps to the recorder output. These are measured with the input amplifier and the A/D converter and compared with a highly accurate reference voltage.

The 100 MOhm resistor at the same time serves as reference for the impedance measuring circuit, which thus is tested as well.

This means, a complete test of the signal path is implemented with a pH meter for the first time. In addition, all memories, the display, and the keypad are tested.



Specifications Laboratory pH Meter 765

Laborat	tory	рΗ	Meter	765
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Laboratory pH Meter 7	65
Equipment	Meter with power cord, without electrode
Ranges	pH: -2.00 +16.00 / mV: -1999 +1999 / °C: -50.0 +150.0
Display	Alphanumeric 2 x 4 digits, 14-segment LED, 13 mm high characters, measurement symbols pH/mV/°C/man, 3 Sensoface® status indicators inform on the condition of electrode and equipment (GLP) ³⁾
Measuring cycle	Approx. 1/sec
Accuracy ¹⁾	pH: < 0.01 / mV: < 0.1 % ±0.3 mV / °C: < 0.3 K
Input	DIN 19262
Input resistance	>1 x 10 ¹² Ohm
	Input current (20 °C) ²⁾ < 1 x 10 ⁻¹² A
Temperature coefficient	< 0.1 count/K
Electrode standardization (Option 346)	Calimatic® automatic calibration and buffer recognition (German patent 29 37 227) For buffer sets, see Page 65, permitted calibration ranges: Zero: pH 6 8 Slope: 47 61 mV/pH (25 °C) Nominal zero / slope/V _{iso} *) Zero: pH 0 to 14 Slope: 25 61 mV/pH V _{iso} : –500 +500 mV
Electrode monitoring	Sensoface® evaluates zero, slope, response time, and glass impedance of the electrode, as well as the calibration interval, electrode condition displayed as good/average/poor, can be disabled monitors the calibration interval
Fullcheck® device self-test	Tests complete measurement electronics incl. analog output, segment and keypad test in diagnostics mode, automatic short-check at power-on
Records	Records of parameter setting, calibration, and diagnostics, records for QM documentation to ISO 9000 and GLP ³⁾ , retrievable in diagnostics mode or via interface (printer)
Displaymatic®	Digit suppression according to signal change, can be disabled
Temperature compensation	Pt 100/Pt 1000, automatic selection/manual: –50.0 +150.0 °C *)
Dead stop current	-10 μA
Recorder output *)	Galvanically isolated mV: 1 mV/mV / pH: 100 mV/pH / °C: 10 mV/°C
Interface	RS 232 without control lines, galvanically isolated, can be used either as printer or computer interface, Baud rate: 000/1200/2400/4800/9600*) 7 Bit, even/odd parity*) 8 Bit, no parity*) Protocol: none, xon/xoff*) Stop bits: 1
Software	Control of the Model 765 pH Meter is integrated in the automation software for lab meters "labworldsoft" (Fisher Scientific) for display and control of device functions for Version 4.0 or higher.

Specifications 765 Laboratory pH Meter, continued

Printer control	For standard printer with serial port, printing at keystroke, via print interval timer 0.1 999.9 min*), or external floating contact
Clock	Real-time clock with date, self-contained
Calibration data storage	Automatic storage of calibration data, self-contained
Data retention	Parameters, statistics, and factory settings: >10 years (EEPROM) Clock: reserve power >1 year (battery-backed)
Electrode statistics	Storage of zero and slope of first calibration, as well as data of last 3 calibrations with time and date stamp, self-contained, output via interface to printer or computer
Protection against electrical shock	Protective separation as defined in DIN 57100/VDE 0100 Part 410 and DIN VDE 0106 Part 101, power supply against all other inputs and outputs, in accordance with the NAMUR recommendation "Extra-low voltage circuits with protective separation"
EMC directive	89/336/EEC
Standards	EN 61326 / VDE 0843 Part 20: 2002-3
Ambient temperature Storage and transport temp	0 +45 °C −20 +70 °C
Power supply	230 V –15 % +10 %, 48 62 Hz, < 10 VA, Option 363: 115 V AC
Protection class	
Sensor connection	The meter allows connection of any commercial electrodes with DIN plug or banana plug
Enclosure	Glass-reinforced polyamide 12, stainless steel cover, IP 54 protection, prepared for connecting ZU 6954 attachable stand
Dimensions (W x H x D)	244 x 95 x 255 mm
Weight	Approx. 2 kg

Buffer sets

Specifications Accessories

Printer	Order No.: ZU 0244
г Туре	Matrix printer
nterface	Serial RS 232 port
Paper	Standard paper, width: 57.5 mm (2.25 inches)
Baud rate	4800 bauds
Data bits	7, 1 stop bit
Parity	Even
Protocol	No No
Power supply	230 V AC ±10 %
Dimensions (W x H x D)	197 x 73 x 153 mm
Weight	Approx. 1.2 kg (incl. power pack)
Stand	Order No.: ZU 6954
Material	Pillar: anodized aluminum; carriage and base: polyamide 12 glass reinforced; Beaker stop, vertical stop, and electrode clasp: stainless steel
Carriage stroke	190 mm
Elamping possibilities Stop for sample beakers	2 x 12 ± 0.5 mm; 1 x 4 14 mm; 1 x 6 16 mm from Ø 30 150 mm
Beaker height	Up to 130 mm
Dimensions (W x H x D)	130 x 300 x 145 mm
Weight	Approx. 410 g
Plug-in power pack for immersion stirrer	Order No.: ZU 6956
Power supply	230 V AC –15 % +6 % < 8 VA
Cable length	2 m
	Approx. 380 g
mmersion stirrer	Order No.: ZU 6955
Material	Enclosure: PVC; impeller and shaft: stainless steel
Dimensions	Unit: 250 x Ø 25/12 mm; impeller: Ø 12 mm; immersion depth: approx. 90 mm
r Weight	Approx. 140 g

Combination pH electrodes for lab and field units

The SE 100 and SE 103 electrodes with a glass body are combination electrodes for standard applications in the lab. The Model SE 100 has an integrated Pt 1000 temperature probe. The Model SE 103 with its high-temperature dissipation system is suitable for measurements in media up to 100 °C.

For use in rougher environments, Knick offers the SE 101 electrode with plastic body. It is also equipped with an integrated Pt 1000 temperature probe. In addition, Knick also offers the SE 104 puncture electrode. This thin, gel-filled combination electrode is particularly robust and insensitive to pollution. Therefore, it is suited especially for measurements in semi-solid substances such as meat or cheese.

Specifications Combination pH electrodes

Combination pH electrodes	SE 100	SE 101	SE 103	SE 104
r Temperature probe	Pt 1000	Pt 1000	_	_
Body material	Glass	Plastic (PEEK)	Glass	Plastic (PEEK)
Body length	165 mm	110 mm	165 mm	99 mm
Body diameter	12 mm	12 mm	12 mm	6 16 mm
Junction	Ceramic	2-hole junction	Ceramic	Hole junction
Electrolyte	3 mol/I KCI, refillable	Polymer	3 mol/I KCI, refillable	Polymer
pH measurement range	0 14	0 14	0 14	2 11
Temperature range	0 80 °C	0 80 °C	0 100 °C	0 80 °C
Recommended temp probe	Integrated	Integrated	ZU 6959	ZU 0156
Remarks	-	-	High-temperature dissipation system	Puncture electrode
Order No.	SE 100	SE 101	SE 103	SE 104
	4			
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Product line Laboratory pH meters and combination pH electrodes

		Order No.
765 Laboratory pH Meter	Unit with power cord, without electrode	765
Set	765 Laboratory pH Meter, SE 100 pH/Pt 1000 combination electrode, ZU 6954 attachable stand and ZU 6928 buffer set (no further optional equipment possible)	765-Set
Options Power supply	115 V AC	363
Electrode zero point	Nominal electrode zero point and slope user defined	346
pH/Pt 1000 combination electrode	(Glass body, length 165 mm)	SE 100
pH/Pt 1000 combination electrode	(Plastic body, length 110 mm)	SE 101
Combination pH electrode	(Glass body, length 165 mm)	SE 103
Combination pH puncture electrode	(Plastic body, length 99 mm)	SE 104

Product line Accessories

Ink ribbon

		Order No.
Attachable stand	Besides the immersion stirrer, the attachable stand can hold three sensors of any kind. The adjustable stops prevent damage of sensor and beaker glass. Time-consuming adjustment during sample changes has been eliminated. An integrated cable duct does away with the "spaghetti cables" on your benchtop. For ZU 6955 immersion stirrer and three sensors, directly connected to the meter.	ZU 6954
Immersion stirrer	The immersion stirrer reduces electrode response time for measurement and calibration. Precision measurements to DIN 19268 even require stirring. To prevent splattering of test liquid, the stirrer automatically stops as the carriage moves up. The stirrer is supplied via the ZU 6956 plug-in power pack.	ZU 6955
Plug-in power pack	For immersion stirrer	ZU 6956
Interface cable	For meter – computer connection (special EMC cable)	ZU 0152
Lab printer	With the Lab Printer, you can document your measured values either at the press of a key or timer-controlled. Also records for QM documentation to ISO 9000 and GLP can be printed out with a single keystroke. The printer is equipped with a replaceable ribbon cartridge and prints on standard paper. It is connected to the 765 Laboratory pH Meter or the 703 Laboratory Conductivity Meter via ZU 0245 interface cable.	ZU 0244
Interface cable	For meter – printer connection	ZU 0245
Printer paper	For ZU 0244 Lab Printer, 5 rolls	ZU 0249

For ZU 0244 Lab Printer, 5 ribbons

ZU 0250

Product line Sensors and buffer solutions

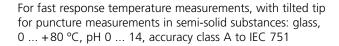
Order No.

Pt 1000 temperature probe

For fast response temperature measurements: stainless steel, $-10 \dots +100$ °C), accuracy class A to IEC 751

ZU 6959

Pt 1000 temperature probe



ZU 0156

Calibration buffer set



With Knick technical buffer solutions, 250 ml each of pH 4.01, pH 7.00, pH 9.21, and KCI solution

ZU 0261

Calibration buffer set



With standard buffer solutions to DIN 19266 and NIST (NBS), 250 ml each of pH 4, pH 7, and KCI solution

ZU 6941

KCI solution



250 ml bottle **ZU 0062**

Knick technical buffers



pH 4.01 (set with 30 bags for one calibration each)	ZU 0263
pH 7.00 (set with 30 bags for one calibration each)	ZU 0264
pH 9.21 (set with 30 bags for one calibration each)	ZU 0265
pH 4.01 (1000 ml)	ZU 0200
pH 7.00 (1000 ml)	ZU 0201
pH 9.21 (1000 ml)	ZU 0202

766 Laboratory pH Meter



checks the electrode and provides information on the electrode condition. Zero point, slope, response time, and glass impedance of the electrode are evaluated.

Trueline®

Sensoface®

delivers a calibrated analog recorder signal, of course electrically isolated. This provides you with a true pH signal, calibrated for the electrode and without disturbing quantizing levels, permitting undistorted recording of pH curves.

Calimatic®

automatically recognizes the right buffer. It allows calibration at the stroke of a key, providing ease of use and – above all – safety.

You simply immerse the electrode in two buffers of the selected set, no matter which one you take first, and press the cal key. The meter automatically recognizes the buffer and calibrates itself. It does not matter which buffer solution is taken first.

EMC

EMC design protects the meter from electromagnetic interferences, ensuring reliable measurement results even under unfavorable conditions.

The Laboratory pH Meter with uncompromising ease of use.

The 766 Laboratory pH Meter is designed for standard applications in everyday lab routines. It combines practical functionality and easy operation with comprehensive safety functions.

Gaincheck®

Gaincheck® performs a complete instrument check. At a keystroke, it not only checks electrical characteristics, but also display and keypad. At power-on, a short check automatically tests device functions. This ensures the device operability, as part of quality management to ISO 9000 and GLP.



Easy operation with five keys

Even with its comprehensive safety functions, the Model 766 remains easy to operate. Just five keys give access to all functions you require for easy and precise routine measurements.

Temperature compensation manual or automatic

Temperature is automatically compensated. A pH/Pt 1000 electrode detects the temperature and the Model 766 automatically calculates it into the measured value. Of course, you can also measure the temperature using a separate sensor or enter it manually.

Easy-to-read LED display for pH and temperature

The large, bright 14-segment LED display for alphanumeric characters allows simultaneous readout of pH/mV and temperature.

Warranty 3 years!

Defects occurring within 3 years from delivery date shall be remedied free of charge at our plant (carriage and insurance paid by sender). Sensors and accessories: 1 year

Safe and robust enclosure

The well-designed enclosure has proved successful in practical use. A waterproof membrane keyboard and drain grooves protect the meter from moisture. The robust, stainless steel covered enclosure resists even strong mechanical stress.



The facts

- Gaincheck® automatic device test
- Trueline® calibrated analog recorder output
- Electrode monitoring with Sensoface® icons
- Automatic calibration with patented Calimatic®
- EMC to NAMUR
- Simultaneous pH and temperature display
- Easy operation
- Liquid-proof membrane keypad
- Robust enclosure
- IP 54 protection
- 3-year warranty

Keypad

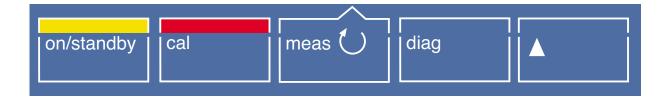
on/off (standby)

Activate calibration

Exit function and return to measuring mode

Activate diagnostics

Step through or edit value



Gaincheck® device self-test

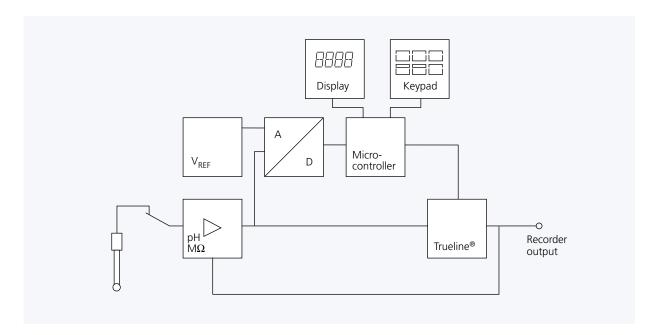
For the self test, the measuring circuit is connected to the recorder output.

The microcontroller sends defined voltage steps to the recorder output. These are measured with the measuring circuit and the A/D converter and compared with a highly accurate reference voltage.

This ensures reliable checking of the signal path. In addition, the Model 766 tests all Sensoface® criteria, all memories, the display, and the keypad.

Gaincheck® allows you to check your instrument's operability for quality management to ISO 9000 and GLP.

Gaincheck® is only available from Knick.



Specifications 766 Laboratory pH Meter

766 Laboratory pH Meter

Equipment	Meter with power cord, without electrode
Ranges	pH: -2.00 +16.00 mV: -1999 +1999 °C: -50.0 +150.0
Display	Alphanumeric 2 x 4 digits, 14-segment LED, character height 13 mm; Measurement symbols pH/mV/°C/man, 3 Sensoface® icons inform on the condition of electrode and measuring equipment (GLP) ³⁾
Measuring cycle	Approx. 1.5/sec
Accuracy ¹⁾	pH: < 0.01 mV: < 0.1 % ±0.3 mV °C: < 0.3 K
Input	DIN 19262
Input resistance	> 1 x 10 ¹² Ohm
nput current (20 °C) ²⁾	< 1 x 10 ⁻¹² A
Temperature coefficient	< 0.1 count/K
Electrode standardization	Calimatic® automatic calibration and buffer recognition (German patent 29 37 227), For buffer sets, see Page 76, permitted calibration ranges: Zero: pH 6 8 Slope: 47 61 mV/pH (25 °C)
Electrode monitoring	Sensoface® evaluates zero, slope, response time, and glass impedance of the electrode, electrode condition displayed as good / average / poor, can be disabled
Device self-test Gaincheck®	Displays all Sensoface® criteria and electrode data, tests measurement electronics including memories, measured value processing, and recorder output, checks display and keypad during diagnostics, automatic short check at power-on
Temperature compensation	Pt 1000, automatic selection Manual: 0.0 +100.0 °C *)
Recorder output*) Trueline®	pH-compensated, no quantizing levels mV: 1 mV/mV pH: 100 mV/pH Automatic matching to measured value setting
Calibration data storage	Automatic storage of calibration data and settings, self-contained
Data retention	>10 years (EEPROM)
Protection against electrical shock	Protective separation of all extra-low-voltage circuits against power supply to DIN VDE 0100 Part 410 as defined in DIN VDE 0106 Part 101 and according to EN 61010 Part
*) User defined	1) ±1 count

^{*)} User defined

^{1) ±1} count

^{2) 45 °}C: factor 10

³⁾ Good Laboratory Practice

Specifications 766 Laboratory pH Meter, continued

766 Laboratory pH Meter

EMC directive	89/336/EEC				
Standards	EN 61326 VDE 0843 Part 20: 2002-3				
Ambient temperature Storage and transport temp	0 +45 °C −20 +70 °C				
Power supply	230 V –15 % +10 %, 48 62 Hz, < 10 VA, Option 363: 115 V AC				
Sensor connection	The meter allows connection of any commercial electrodes with DIN plug or banana plug				
Enclosure	Glass-reinforced polyamide 12, stainless steel cover, IP 54 protection, prepared for connecting ZU 6954 attachable stand				
Dimensions (W x H x D)	244 x 95 x 255 mm				
Weight	Approx. 2 kg				

Buffer sets

Knick technical buffers, nominals 25 °C: 2.00/4.01/7.00/9.21
Mettler-Toledo (Ingold) technical buffers, nominal values 25 °C: 2.00/4.01/7.00/9.21
Merck, Riedel, nominal values 20 °C: 2.00/4.00/7.00/9.00/12.00
Techn. buffer solutions to DIN 19 267,
nom. values 25°C: 1.09/3.06/4.65/6.79/9.23/12.75
DIN 19 266 and NIST (NBS), nominal values 25 °C: 1.679/4.006/6.865/9.180/12.454
Merck, Riedel, nominal values 20 °C: 1.00/3.00/6.00/8.00/10.00/13.00
Merck, nominal values 20 °C: 4.66/6.88/9.22
Ciba (94), nominal values: 2.06/4.00/7.00/10.00
Mettler-Toledo (USA), nominal values 25 °C: 4.00/7.00/10.01

Specifications Accessories

Stand	Order No.: ZU 6954			
r Material	Pillar: anodized aluminum; carriage and base: polyamide 12 glass reinforced; Beaker stop, vertical stop, and electrode clasp: stainless steel			
Carriage stroke	190 mm			
Clamping possibilities Stop for sample beakers	2 x 12 ± 0.5 mm; 1 x 4 14 mm; 1 x 6 16 mm from Ø 30 150 mm			
ı Beaker height	Up to 130 mm			
Dimensions (W x H x D)	130 x 300 x 145 mm			
Weight	Approx. 410 g			
Plug-in power pack				
Plug-in power pack for immersion stirrer	Order No.: ZU 6956			
	Order No.: ZU 6956 230 V AC -15 % +6 % < 8 VA			
for immersion stirrer				
for immersion stirrer Power supply	230 V AC –15 % +6 % < 8 VA			
for immersion stirrer Power supply Cable length	230 V AC –15 % +6 % < 8 VA			
for immersion stirrer Power supply Cable length Weight	230 V AC –15 % +6 % < 8 VA 2 m Approx. 380 g			
For immersion stirrer Power supply Cable length Weight Immersion stirrer	230 V AC –15 % +6 % < 8 VA 2 m Approx. 380 g Order No.: ZU 6955			

Combination pH electrode for lab and field units

The SE 100 and SE 103 electrodes with a glass body are combination electrodes for standard applications in the lab. The Model SE 100 has an integrated Pt 1000 temperature probe. The Model SE 103 with its high-temperature dissipation system is suitable for measurements in media up to 100 °C.

For use in rougher environments, Knick offers the SE 101 electrode with plastic body. It is also equipped with an integrated Pt 1000 temperature probe. In addition, Knick also offers the SE 104 puncture electrode. This thin, gel-filled combination electrode is particularly robust and insensitive to pollution. Therefore, it is suited especially for measurements in semi-solid substances such as meat or cheese.

Product line Combination pH electrodes

Combination pH electrodes	SE 100	SE 101	SE 103	SE 104
Temperature probe	Pt 1000	Pt 1000	_	
Body material	Glass	Plastic (PEEK)	Glass	Plastic (PEEK)
Body length	165 mm	110 mm	165 mm	99 mm
Body diameter	12 mm	12 mm	12 mm	16 mm
Junction	Ceramic	2-hole junction	Ceramic	Hole junction
Electrolyte	3 mol/I KCI, refillable	Polymer	3 mol/I KCI, refillable	Polymer
pH measurement range	0 14	0 14	0 14	2 11
Temperature range	0 80 °C	0 80 °C	0 100 °C	0 80 °C
Recommended temp probe	_	_	ZU 6959	ZU 0156
Remarks	_	_	High-temperature dissipation system	Puncture electrode
Order No.	SE 100	SE 101	SE 103	SE 104
	•	and the same		

Product line Laboratory pH meters and combination pH electrodes

		Order No.
766 Laboratory pH Meter	Unit with power cord, without electrode	766
Set A	766 Laboratory pH Meter with SE 101 pH/Pt 1000 combination electrode, (combination pH/Pt 1000 electrode, plastic, 110 mm)	766-SET A
Set B	766 Laboratory pH Meter with SE 100 pH/Pt 1000 combination electrode, (combination pH/Pt 1000 electrode, glass, 165 mm)	766-SET B
Options Power supply	115 V AC	363
pH/Pt 1000 combination electrode	Glass body, length 165 mm	SE 100
pH/Pt 1000 combination electrode	Plastic body, length 110 mm	SE 101
Combination pH electrode	Glass body, length 165 mm	SE 103
Combination pH puncture electrode	Plastic body, length 99 mm	SE 104

Product line Accessories

Order No.

Attachable stand



Besides the immersion stirrer, the attachable stand can hold three sensors of any kind. The adjustable stops prevent damage of sensor and beaker glass. Time-consuming adjustment during sample change has been eliminated. An integrated cable duct does away with the "spaghetti cables" on your benchtop.

ZU 6954

For immersion stirrer and three sensors. Fixed directly to the meter.

Immersion stirrer



The immersion stirrer reduces electrode response time for measurement and calibration. Precision measurements to DIN 19268 even require stirring. To prevent splattering of test liquid, the stirrer automatically stops as the carriage moves up. The stirrer is supplied via the ZU 6956 plug-in power pack.

ZU 6955

Plug-in power pack



For immersion stirrer

ZU 6956





DELTA LABO

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