

MEINSBERG Analytical Instrumentation for Swimming Pool Water Treatment

Since more than 50 years electrochemical sensors and instrumentation are developed and manufactured in Meinsberg near Waldheim in Saxony / Germany. **MEINSBERG pH and Redox (ORP) Electrodes** are a synonym for innovation, high quality standard and custom-specific design.

- **pH and Redox (ORP) Electrodes, Ion-Selective Electrodes**
- **Conductivity Cells**
- **Dissolved Oxygen Sensors**
- **Chlorine Sensors and Sensors for other Disinfectants**
- **Calibration Solutions, Standards and Electrolytes**
- **Measuring Transmitters and Multi-Parameter Instrumentation**

Sensortechnik Meinsberg realises long lasting, full of confidence co-operations in developing and manufacturing of OEM products, components, instruments, electrodes and sensors with a lot of manufacturers of instrumentation worldwide. Customized sensors / electrodes, electrodes with private label, short delivery time in batches of a estimated annual volume, quality assurance in accordance with DIN ISO 9001, special manuals, comprehensive technical data sheets, application reports and appropriate consultation are an integral part of our business.

We developed specifically designed electrodes and sensor for application in swimming pool water treatment. This electrodes / sensors feature **extremely rugged design, low maintenance, and comparable quality in relation to laboratory and process electrodes** as well as **economical manufacturing**.



pH Combination Electrode EGA 133



Low maintenance pH combination electrode with gel electrolyte; Ag/AgCl reference system, zero point pH 7; 2 ceramic frits

Design:

plastic body, black Ø 12 mm, stem length 120 mm

PG 13.5 threaded plug head coaxial S7-system or 2 m fixed cable Ø 3 mm with BNC plug and electrode stem equipped with a free turnable hex nut PG 13.5; neutral design or custom-specific label

Specification:

pH range 0 ... 14

Temperature range -5 ... 80 °C

Redox Combination Electrode EMC 133 (EMC 134)



Low maintenance redox (ORP) combination electrode with gel electrolyte; Ag/AgCl reference system; 2 ceramic frits

Design:

plastic body, black Ø 12 mm, stem length 120 mm

PG 13.5 threaded plug head coaxial S7-system or 2 m fixed cable Ø 3 mm with BNC plug and electrode stem equipped with a free turnable hex nut PG 13.5; neutral design or custom-specific label

Specification:

Platinum disc Ø 6 mm (EMC 134 with platinum rod)

Temperature range -5 ... 80 °C

pH Combination Electrode EGA 150



Low maintenance pH combination electrode with gel electrolyte; Ag/AgCl reference system, zero point pH 7; ceramic liquid junction

Design:

glass body Ø 12 mm, stem length 120 mm

PG 13.5 threaded plug head coaxial S7-system or 2 m fixed cable Ø 3 mm with BNC plug and electrode stem equipped with a free turnable hex nut PG 13.5; neutral design or custom-specific label

Specification:

pH range 0 ... 14

Temperature range -5 ... 80 °C

Redox Combination Electrode EMC 33 (EMC 34)



Low maintenance redox (ORP) combination electrode with gel electrolyte; Ag/AgCl reference system; ceramic liquid junction

Design:

glass body Ø 12 mm, stem length 120 mm

PG 13.5 threaded plug head coaxial S7-system or 2 m fixed cable Ø 3 mm with BNC plug and electrode stem equipped with a free turnable hex nut PG 13.5; neutral design or custom-specific label

Specification:

Platinum disc Ø 6 mm (EMC 34 with platinum rod)

Temperature range -5 ... 80 °C



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Conductivity Cell LTC 1



Extremely rugged conductivity electrode with two electrodes made of special graphite, optionally with integrated temperature probe (NTC, Pt 100, Pt 1000)

Design:

plastic body, black Ø 12 mm, stem length 120 mm

PG 13.5 threaded plug head coaxial S7-system or 2 m fixed cable Ø 3 mm with BNC plug and electrode stem equipped with a free turn able hex nut PG 13.5; neutral design or custom-specific label

Specification:

Cell constant about 1/cm

Measuring range about 10 µS/cm to 20 (100) mS/cm (depended from frequency and voltage)

Temperature range -5 ... 80 °C

Chlorine Sensors CL 4, CS 2 and CP 2



Membrane covered amperometric sensors for measurement of free oxidising chlorine (CS 2, CL 4) or total chlorine (CP 2) in drinking or swimming pool water; integrated temperature compensation; slope adjustment in comparison with the DPD method

Design:

plastic body Ø 25 mm (1"), stem length 220 mm; plug head or two-wire cable connection; neutral design or custom-specific label

Specification:

Measuring range 0... > 2 mg/l free chlorine (CP 2 total chlorine)

Temperature range 0 ... 45 °C

Pressure max. 2 bar (CS 2, CP 2 max. 0.5 bar)

Flow stream about 30 l/h

CL 4 pH range 7.2...7.4; CS 2, CP 2 pH compensated

Measuring Transmitters for pH, redox potential (ORP), conductivity, dissolved oxygen



Intelligent transmitters for on-line measurement of pH, redox potential, conductivity or dissolved oxygen, always in connection with a temperature measurement; configurable by means of the RS 232 interface and a PC software program

Design:

Modular case (front wide 22.5 mm; HxD 99 x 115 mm) for mounting on DIN top-hat rail; front side with LED stability display, two buttons for calibration functions, RS 232 connector

Specification:

Measuring ranges: pH 0...14; -2000...2000 mV; 0...100 mS/cm; 0...20 mg O₂/l (0...200 % saturation); -10...130 °C

Two scaleable analogue current outputs 0(4)...20 mA, galvanic isolated

RS 232 interface for configuration and data storage

1 floating relay limit output

Power supply 15...24 V AC/DC

Standard Solutions and Electrolytes

pH buffer solutions pH 7.0 (25 °C) green; pH 9.0 (25 °C) blue; pH 4.0 (25 °C) red; Redox buffer solutions 220 mV / 468 mV

Conductivity standard solutions 12.9 mS/cm (25 °C), 1.41 mS/cm (25 °C) and 147 µS/cm (25 °C)

Cleaning solution, Re-conditioning solution, each in plastic bottles 250 ml, 100 ml and 50 ml

FAX BACK Request Form: +49 34327 62379

Yes, I am interested in getting more information and quotations:

- | | |
|--|---|
| <input type="checkbox"/> pH Combination Electrode EGA 133 | <input type="checkbox"/> Chlorine Measuring Sensors CL 4, CS 2 and CP 2 |
| <input type="checkbox"/> pH Combination Electrode EGA 150 | <input type="checkbox"/> Conductivity Cell LTC / Dissolved Oxygen Sensors |
| <input type="checkbox"/> Redox (ORP) Combination Electrode EMC 133 / EMC 134 | <input type="checkbox"/> Measuring Transmitters pH, mV, conductivity, DO |
| <input type="checkbox"/> Redox (ORP) Combination Electrode EMC 33 / EMC 34 | <input type="checkbox"/> Standard Solutions and Electrolytes |
| <input type="checkbox"/> Lab & field instruments for pH/mV, conductivity, DO | <input type="checkbox"/> complete analytical product program review |

Address:

Company

Contact Name Department

Street/PB Zip/City/Country

Tel. Fax E-mail



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