


Our Memosens® program contains pH and redox electrodes. They are compatible to all measuring devices based on the Memosens® protocol available on the market. Following the in the analog segment already established electrodes of the series ProcessLine, SteamLine and annular-gap electrodes our new Memosens® electrode program also contains the upcoming FlowLine series. FlowLine is a new line of liquid-electrolyte electrodes with integrated plastic miniature pressure adapter for the hose connection to the electrolyte reservoir. All Memosens® electrodes are equipped with a NTC 30 kΩ temperature sensor.

All low-maintenance Memosens® electrodes are conforming to ATEX standards 94/9/EG. The inspection at the EXAM in Bochum/Germany was documented with the certificate BVS 12 ATEX E 037 x. The following standards are applied: EN 60079-0 :2009; EN 60079-11 :2007; EN 60079-26 :2007. The ATEX marking is:

 II 1G Ex ia IIC T3/ T4/ T6 Ga

Hence the electrodes are approved for equipment group II to Zone 0 with gaseous atmosphere. The sensors are classified as type of protection „ia“ -intrinsically safe- and can be used within established temperature parameters.

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Memosens® is a registered trademark of Endress+Hauser Conducta GmbH + Co. KG, Gerlingen  
The sign  is a registered trademark of Endress+Hauser Conducta GmbH + Co. KG, Gerlingen and Knick Elektronische Messgeräte GmbH + Co. KG, Berlin



The first address for electrodes  
Memosens®

**NEW**

**The new SI Analytics electrodes with Memosens® system**

*Memosens® makes a difference:*

- ▲ Memosens® is a digital measuring system
- ▲ Sensor data is stored in the included memory
- ▲ The measuring signals are digitized and transferred inductively via a non-contact connection
- ▲ The hermetically sealed sensor plug-in head is overpressure safe and submersible

*The advantages of Memosens® at a glance:*

- ▲ Complete galvanic isolation
- ▲ Resistant to environmental influences
- ▲ radical improvement in measuring point reliability
- ▲ Lifecycle memory makes predictive maintenance possible
- ▲ Memosens® is an open System. All Memosens® sensors and devices from manufacturers involved are compatible with each other



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## Ordering information:

Type No.	Order No.	Description
A7781-120 NMSN	285114765	Low maintenance pH combination electrode with NTC 30K, glass shaft, 3 x ceramic diaphragm, gel electrolyte, Silamid®-reference system, sphere membrane, A-glass, Memosens® screw plug head, length 120 mm, 12 mm Ø, -5...+80 °C, 0...14 pH, <sup>1</sup>
A7781-225 NMSN	285114770	Low maintenance pH combination electrode with NTC 30K, glass shaft, 3 x ceramic diaphragm, gel electrolyte, Silamid®-reference system, sphere membrane, A-glass, Memosens® screw plug head, length 225 mm, 12 mm Ø, -5...+80 °C, 0...14 pH, <sup>1</sup>
FL A 93-120 MF NMSN	285118180	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 200, sphere membrane, A-glass, Memosens® screw plug head, length 120 mm, 12 mm Ø, -30...+100°C, 0...14 pH
FL S 93-120 MF NMSN	285118200	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 300, sphere membrane, S-glass, Memosens® screw plug head, length 120 mm, 12 mm Ø, +10...+135°C, 0...14 pH
FL A 93-225 MF NMSN	285118185	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 200, sphere membrane, A-glass, Memosens® screw plug head, length 225 mm, 12 mm Ø, -30...+100°C, 0...14 pH
FL A 93-280 MF NMSN	285118190	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 200, sphere membrane, A-glass, Memosens® screw plug head, length 280 mm, 12 mm Ø, -30...+100°C, 0...14 pH
FL A 93-380 MF NMSN	285118195	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 200, sphere membrane, A-glass, Memosens® screw plug head, length 380 mm, 12 mm Ø, -30...+100°C, 0...14 pH
FL S 93-225 MF NMSN	285118210	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 300, sphere membrane, S-glass, Memosens® screw plug head, length 225 mm, 12 mm Ø, +10...+135°C, 0...14 pH
FL S 93-280 MF NMSN	285118220	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 300, sphere membrane, S-glass, Memosens® screw plug head, length 280 mm, 12 mm Ø, +10...+135°C, 0...14 pH
FL S 93-380 MF NMSN	285118230	Liquid electrolyte comb. electrode with NTC 30K and integrated plastic adapter for hose connection incl. Pg13.5 thread, platinum diaphragm, electrolyte L 300, sphere membrane, S-glass, Memosens® screw plug head, length 380 mm, 12 mm Ø, +10...+135°C, 0...14 pH
H 8281-120 NMSN	285111020	Low maintenance pH combination electrode, glass shaft, KPG annular gap diaphragm, Referid®-electrolyte, Silamid®-reference system, dome membrane, H-glass, Memosens® screw plug head, length 120 mm, 12 mm Ø, 0...+100 °C, 2...13 pH, <sup>1</sup>
H 8281-225 NMSN	285111040	Low maintenance pH combination electrode, glass shaft, KPG annular gap diaphragm, Referid®-electrolyte, Silamid®-reference system, dome membrane, H-glass, Memosens® screw plug head, length 225 mm, 12 mm Ø, 0...+100 °C, 2...13 pH, <sup>1</sup>
H 8281-325 NMSN	285111050	Low maintenance pH combination electrode, glass shaft, KPG annular gap diaphragm, Referid®-electrolyte, Silamid®-reference system, dome membrane, H-glass, Memosens® screw plug head, length 325 mm, 12 mm Ø, 0...+100 °C, 2...13 pH, <sup>1</sup>
H 8281-360 NMSN	285111030	Low maintenance pH combination electrode, glass shaft, KPG annular gap diaphragm, Referid®-electrolyte, Silamid®-reference system, dome membrane, H-glass, Memosens® screw plug head, length 360 mm, 12 mm Ø, 0...+100 °C, 2...13 pH, <sup>1</sup>
H 8281-425 NMSN	285111060	Low maintenance pH combination electrode, glass shaft, KPG annular gap diaphragm, Referid®-electrolyte, Silamid®-reference system, dome membrane, H-glass, Memosens® screw plug head, length 425 mm, 12 mm Ø, 0...+100 °C, 2...13 pH, <sup>1</sup>

<sup>1</sup> This electrode conforms to ATEX standards 100a.

PL 83-120 NMSN	285113495	Low-maintenance pH combination electrode with NTC 30K, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, Memosens® screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, 0...130 °C, <sup>1</sup>
PL 83-225 NMSN	285113505	Low-maintenance pH combination electrode with NTC 30K, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, Memosens® screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, 0...130 °C, <sup>1</sup>
PL 83-325 NMSN	285113515	Low-maintenance pH combination electrode with NTC 30K, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, Memosens® screw plug head, length 325 mm, 12 mm Ø, 0...14 pH, 0...130 °C, <sup>1</sup>
PL 83-360 NMSN	285113525	Low-maintenance pH combination electrode with NTC 30K, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, Memosens® screw plug head, length 360 mm, 12 mm Ø, 0...14 pH, 0...130 °C, <sup>1</sup>
PL 83-425 NMSN	285113535	Low-maintenance pH combination electrode with NTC 30K, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, Memosens® screw plug head, length 425 mm, 12 mm Ø, 0...14 pH, 0...130 °C, <sup>1</sup>
PL 89-120 NMSN	285113565	Low-maintenance metal combination electrode with NTC 30K, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sensor platinum disk, Memosens® screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, 0...130 °C, <sup>1</sup>
PL 89-225 NMSN	285113575	Low-maintenance metal combination electrode with NTC 30K, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sensor platinum disk, Memosens® screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, 0...130 °C, <sup>1</sup>
Pt 8281-120 NMSN	285111070	Low maintenance redox-combination electrode with NTC 30K, glass shaft, KPG annular gap diaphragm, Referid®-electrolyte, Silamid®-reference system, sensor platinum disk 6 mm Ø, Memosens® screw plug head, length 120 mm, 12 mm Ø, -5...+100 °C, <sup>1</sup>
S26250 NMSN	285128350	Liquid electrolyte electrode with NTC 30K and KCl vessel 130 mm, Glass shaft, ceramic diaphragm, electrolyte L 310, Ag/AgCl-reference system, cylinder membrane, S glass, length 250 mm, 12 mm Ø, 0...14 pH, +10...+135 °C, <sup>1</sup>
SL 83-120 NMSN	285114025	Low-maint. pH comb. electrode with NTC 30K, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphragm, press. RheoLid ref. system, sphere membrane, S glass, Memosens® screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, 0...140 °C, <sup>1</sup>
SL 83-225 NMSN	285114035	Low-maint. pH comb. electrode with NTC 30K, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphragm, press. RheoLid ref. system, sphere membrane, S glass, Memosens® screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, 0...140 °C, <sup>1</sup>
SL 83-325 NMSN	285114045	Low-maint. pH comb. electrode with NTC 30K, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphragm, press. RheoLid ref. system, sphere membrane, S glass, Memosens® screw plug head, length 325 mm, 12 mm Ø, 0...14 pH, 0...140 °C, <sup>1</sup>
SL 83-360 NMSN	285114055	Low-maint. pH comb. electrode with NTC 30K, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphragm, press. RheoLid ref. system, sphere membrane, S glass, Memosens® screw plug head, length 360 mm, 12 mm Ø, 0...14 pH, 0...140 °C, <sup>1</sup>
SL 83-425 NMSN	285114065	Low-maint. pH comb. electrode with NTC 30K, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphragm, press. RheoLid ref. system, sphere membrane, S glass, Memosens® screw plug head, length 425 mm, 12 mm Ø, 0...14 pH, 0...140 °C, <sup>1</sup>
SL 89-120 NMSN	285114075	Low-maintenance metal comb. Electrode with NTC 30K, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphragm, press. RheoLid ref. system, sensor platinum disk, Memosens® screw plug head, length 120 mm, 12 mm Ø, 0...140 °C
SL 89-225 NMSN	285114085	Low-maintenance metal comb. Electrode with NTC 30K, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphragm, press. RheoLid ref. system, sensor platinum disk, Memosens® screw plug head, length 225 mm, 12 mm Ø, 0...140 °C