



pH and ORP electrodes



S401 VG S408 MEC S408 POL S401 LC S401VG HTAJ
S406 VG S406 OXT PLUS S406VG HTAJ
S406 POL



AD Series

Digitizer for pH and ORP electrodes

AD Series Chemitec digitizers convert the signals of the common pH and ORP (redox) electrodes into serial signal with standard Modbus RTU protocol, allowing connection to the 50 Series plug & play multi-parametric instrument

General features

The electrodes listed below are all of the combined type (measurement & reference), without maintenance, and are classified by their construction features, which makes them adaptable to multiple applications.

Models and applications

- S401VG**
Combined pH electrode for general use
- S401VG HTAJ**
Combined pH electrode for heavy applications and high temperatures
- S406VG**
Combined ORP (redox) electrode for general use
- S408MEC**
Combined pH electrode for high temperature liquids and/or installations under pressure
- S408POL Plus**
Combined pH electrode for harsh chemical applications
- S406POL**
Combined ORP (redox) electrode for harsh chemical applications
- S406OXT**
Combined ORP (redox) electrode for high temperature liquids and/or installations under pressure
- S401LC**
Combined pH electrode for waters with low electrical conductivity
- S406VG HTAJ**
ORP (redox) electrode for applications in liquids with a high content of suspended solids



50 Series controller







pH and ORP electrodes

Technical specifications electrodes for pH measurement

Models	S401 VG	S408 MEC 	S408 POL PLUS 	S401 LC	S401 VG HTAJ
Measuring range	0...14 pH	0...14 pH	0...14 pH	2...14 pH	0...14 pH
Operating temperature	0...80°C	0...130°C	0...130°C	0...60°C	0...135°C
Maximum pressure	6 bar	16 bar	6 bar	16 bar	10 bar
Min. liquid conductivity	5 µS/cm	50 µS/cm	2 µS/cm	2 µS/cm	50 µS/cm
Body material	Glass	Glass	Glass	Glass	Glass
Electrolyte	Gel	Gel	Polisolve	Gel	Gel
Junction	Single open hole	3 ceramic diaphragm	Double open hole	Single open hole	Single pore increased
Cable connection	S8	S8	S8	S8	S8
Connection to process	Pg 13.5	Pg 13.5	Pg 13.5	Pg 13.5	Pg 13.5
Cable	5 mt	5 mt	5 mt	5 mt	5 mt

Technical specifications electrodes for ORP (redox) measurement

Models	S406 VG	S406 POL 	S406 OXT 	S406VG HTAJ
Measuring range	±2000 mV	±2000 mV	±2000 mV	±2000 mV
Operating temperature	0...80°C	-10...60°C	0...130°C	-5...135°C
Maximum pressure	6 bar	6 bar	16 bar	10 bar
Min. liquid conductivity	5 µS/cm	2 µS/cm	50 µS/cm	50 µS/cm
Body material	Glass	Glass	Glass	Glass
Electrolyte	Gel	Polisolve	Gel	Gel
Junction	Single open hole	Single open hole	3 ceramic diaphragm	Single pore increased
Cable connection	Screw "S7"	Screw "S7"	Screw "S7"	S8
Connection to process	Pg 13.5	Pg 13.5	Pg 13.5	Pg 13.5
Cable	5 mt	5 mt	5 mt	5 mt