



Controllers and Transmitters

pH and ORP Electrodes **swiss handmade +**

Conductivity Cells

DO electrodes

Armatures and cables



Industrial and Process



CONFIGURATION SELECTION TABLE

Electrode	Controller / Transmitter												Cable			Armature											
	M20 (D/R/W)	M20 (D/R/W)	M20 (D/R/W)	M05 PH	M05 MV	M05 CD	M05 OXY	4238	4222	4283	M20D+ PH-RX	M20D+ PH-CD	M05 PH-RX	M05 PH-CD	COAX Cable	VP6 Cable	VP8 Cable	PS 100	SONTRACK	VI-88	33550943	33550913	33550944	33550914	33412353	PS200	
Basic Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Plastic Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Polymer Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Polymer HT Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Polymer HT Pro 225	■			■				■			■	■	■	■	■				■	■	■	■				■	
Polymer HA Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Gel HT Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Gel HT Pro 225	■			■				■			■	■	■	■	■				■	■	■	■				■	
Polymer HF Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Polymer PLUS Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Polymer PLUS Pro 225	■			■				■			■	■	■	■	■				■	■	■	■				■	
Pure Pro	■			■				■			■	■	■	■	■				■	■	■	■				■	
Poliplast	■			■				■			■	■	■	■	■				■	■	■	■				■	
140-94	■			■				■			■	■	■	■	■				■	■	■	■				■	
Basic ORP Platinum		■		■				■			■	■	■	■	■				■	■	■	■				■	
Polymer ORP		■		■				■			■	■	■	■	■				■	■	■	■				■	
Gel HT ORP		■		■				■			■	■	■	■	■				■	■	■	■				■	
Polymer PLUS VP 120								■			■	■	■	■	■				■	■	■	■				■	
Polymer PLUS VP 225								■			■	■	■	■	■				■	■	■	■				■	
Polymer HT VP 120								■			■	■	■	■	■				■	■	■	■				■	
Polymer HT VP 225								■			■	■	■	■	■				■	■	■	■				■	
SPT1									■										■	■	■	■				■	
KI10									■										■	■	■	■				■	
SCDLT			■		■							■		■					■	■	■	■			■	■	
S411/4E									■										■	■	■	■				■	
Visiform DO120								■			■						■		■	■	■	■				■	
Oxysens OXY1								■			■								■	■	■	■				■	

CONTROLLERS AND TRANSMITTERS

SINGLE MEASUREMENT (+temperature)

M20 Series entry level instruments for pH, Redox potential, Conductivity, and temperature measurement. The M20 controllers are available as DIN (D), panel version (R) and wall mounting (W), featuring SMD technology and easy programming.

- Automatic temperature compensation (ATC) with 1kOhm thermistor
- Microprocessor and SMD technology
- Backlight LCD 3 ½ digit display
- Two set point output free contact
- Set point no. 1 - 2 selectable with reverse mode, hysteresis and delay time adjustable
- Set point no. 2 selectable in proportional time/pause mode (PWM)
- 4-20 mA output selectable on measure range (recorder) or on set-point no. 2, with galvanic separation

Power supply 230 Vac 50 Hz (optional 110/24 Vac - 12/24 Vdc), current consumption 2VA

Mounting type:	DIN Rail
Dimensions:	box DIN six module
Set points:	2
Output:	4-20 mA
Waterproof housing:	No
Order code:	See below



Model	Order code	Measurement	Range	Resolution
M20D PH	99651200	pH	0 ... 14 pH	± 0.01 pH
M20D MV	99651205	Redox	0 ... 1000 mV	± 1 mV
M20D CD	99651202	Conductivity	0 ... 10 mS/cm*	± 1 % from range

Mounting type:	Panel mount
Dimensions:	Rack 96mm x 96mm
Set points:	2
Output:	4-20 mA
Waterproof housing:	No
Order code:	See below



Model	Order code	Measurement	Range	Resolution
M20R PH	99651100	pH	0 ... 14 pH	± 0.01 pH
M20R MV	99651101	Redox	0 ... 1000 mV	± 1 mV
M20R CD	99651103	Conductivity	0 ... 10 mS/cm*	± 1 % from range

Mounting type:	Wall mount
Dimensions:	180 x 115 x 75 mm
Set points:	2
Output:	4-20 mA
Waterproof housing:	Yes, IP56
Order code:	See below



Model	Order code	Measurement	Range	Resolution
M20W PH	99651000	pH	0 ... 14 pH	± 0.01 pH
M20W MV	99651001	Redox	0 ... 1000 mV	± 1 mV
M20W CD	99651003	Conductivity	0 ... 10 mS/cm*	± 1 % from range

*The Conductivity versions of the M20 series controllers/Transmitter are also available in other ranges, please feel free to ask for the possibilities.

The **M05** controllers represent the excellence of technology. The instruments of the M05 family allow easy settings with frontal 4 key pad and 2 more contextual menu keys.

The wide display always shows the situation of relays and alarms, while showing the measurement happening in real time.

All M05 controllers can be remotely operated via PC or GSM modem, they can also accommodate an SD card for data storage and downloading.

- Automatic temperature compensation (ATC) with 1kOhm thermistor
- Back-light graphic display
- Multi-power supply: 100..240 Vac
- Hysteresis and delay time adjustable for each set-point
- 1 Alarm point for each set-point
- 1 Alarm relay
- RS232 connection with galvanic separation for remote control
- GSM modem connection
- Flow sensor input
- Level probe input
- Temperature compensation and visualization
- SD card for data storage and downloading (Optional)
- Power supply: 100...230 Vac
- Wall mounting box IP65 protection degree
- Dimensions: 202 x 201x h135 mm
- Two set-points with free contact relays, selectable On-Off mode or proportional time/pause (PWM)
- Two 4-20mA programmable output signal with selectable range and galvanic separation
- One frequency output signal with selectable range
- One relay for alarm

Measurements: pH - Redox - Conductivity – Dissolved Oxygen

<i>Mounting type:</i>	Wall mount
<i>Dimensions:</i>	202 x 184 x 106 mm
<i>Set points:</i>	2 + 1 Alarm
<i>Output:</i>	4-20 mA, RS232, GSM
<i>Waterproof housing:</i>	Yes, IP65
<i>Order code:</i>	See below



<i>Model</i>	<i>Order code</i>	<i>Measurement</i>	<i>Range</i>	<i>Resolution</i>
M05 PH	99653107	pH	0 ... 14 pH	± 0.01 pH
M05 MV	99653109	Redox	0 ... 1999 mV	± 1 mV
M05 CD	99653104	Conductivity	0 ... 1999 µS/cm*	± 1 % from range
M05 OXY	99653106	Oxygen	0 ... 20 ppm	± 0.01 ppm

*The Conductivity versions of the M05 series controllers/Transmitter are also available in other ranges, please feel free to ask for the possibilities.

The **42** Series controllers for industrial applications, are equipped with an output for proportional control, control functions for the probe conditions and other various outputs. The user has full control of the programming.

User Interface:

Programming keypad with 5 keys for calibration and instrument configuration with: GRAPH key to display the stored data in table and graphic form.

Monochrome display 128 x 64 pixel with graphic icons to display the status of the digital output, the recording data, the wash cycle and the alarm and Scrolling through the output values.

Software & Functions:

Manual controls: thanks to the intuitive programming menu it is very easy to start and control the dosing system.

Data Logger: on an internal flash memory with a recording interval of 1 to 99 min. (about 16000 records).

RS485 Serial Port for set-up and remote real time data acquisition or for downloading the stored data on a portable or desktop PC (using dedicated software), through MODBUS RTU communication protocol.

USB Port to download measurement data directly on a removable USB memory stick (available on request).

Digital Input for disabling of dosage or to start the washing from a remote location.

Temperature compensation through pT100, pT1000 sensor with 3 or 4 wires or NTC (for Dissolved oxygen)

Measurements: pH - Redox - Conductivity – Dissolved Oxygen

- Measuring of Temperature using the pT100/pT1000 probe or NTC (for dissolved oxygen)
- Automatic Compensation of Temperature
- Programming key pad with 5 keys
- "CAL" Function Key to direct access to the calibration menu
- "GRAPH" Function Key to direct access to the graphs of measure
- LCD Graphic display 128x64 with background illumination
- Internal Data Logger (flash 4 Mbit) with the possibility of graphic and table visualization of measurement trends
- PID control
- Serial output RS485 MOD BUS RTU
- Data download on USB memory stick (optional)
- 2 Programmable Analogical Outputs
- 2 Relay Outputs for the set points, with hysteresis, an on/off delay
- 1 Relay Output for Alarm or Temperature Set Point
- 1 Relay Output for Probe Washing or Temperature Set Point
- 1 Digital Input for disabling the dosing

Mounting type:	Wall mount
Dimensions:	144 x 144 x 123 mm
Set points:	2 + 1 Alarm + 1 Wash
Output:	0/4-20 mA, RS458, USB
Waterproof housing:	Yes, IP66
Order code:	See below



Model	Order code	Measurement	Range	Resolution
4238	97106120	pH / ORP	0 ... 14 pH ± 1500 mV	± 0.01 pH ± 1 mV
4222	97106100	Conductivity	0 ... 20 mS/cm*	± 0.2 % from range
4283	97106160	Oxygen	0 ... 40 ppm	± 0.5% from range



Mounting type:	Panel mount
Dimensions:	96 x 96 x 92 mm
Set points:	2 + 1 Alarm + 1 Wash
Output:	0/4-20 mA, RS458, USB
Waterproof housing:	No, IP54
Order code:	See below

Model	Order code	Measurement	Range	Resolution
4238	97106120P	pH / ORP	0 ... 14 pH ± 1500 mV	± 0.01 pH ± 1 mV
4222	97106100P	Conductivity	0 ... 20 mS/cm*	± 0.2 % from range
4283	97106160P	Oxygen	0 ... 40 ppm	± 0.5% from range

*The Conductivity versions of the 42 series controllers/Transmitter are also available in other ranges, please feel free to ask for the possibilities.



DUAL MEASUREMENT (+temperature)

The **M20D+**, direct evolution of the M20, adds a second measure along with the display. The available configurations are: pH-Redox and pH-conductivity. All with pH as priority functionality.

- Automatic temperature compensation (ATC) with 1kOhm thermistor
- Microprocessor SMD technology
- Backlight display
- 4 free contact relays output (2 for each measurement), selectable On/Off or proportional time/pause (PWM)
- Set-points with selectable reverse mode, hysteresis and adjustable delay time
- 4-20 mA output (1 for each measurement) selectable or proportional to the set-point value or on measurement range (recorder) with galvanic separation
- Flow sensor input
- pH priority
- Power supply: 100...230 Vac
- Wall mounting box IP65 protection degree
- Dimensions: 202 x 201x h135 mm



Mounting type:	Wall mount
Dimensions:	202 x 201 x 135 mm
Set points:	4
Output:	2x 4-20 mA
Waterproof housing:	Yes, IP65
Order code:	See below

Model	Order code	Measurement	Range	Resolution
M20D+ PH-RX	99652001	pH and Redox	0 ... 14 pH 0 ... 1000 mV	± 0.01 pH ± 1 mV
M20D+ PH-CD	99652002	pH and Conductivity	0 ... 14 pH 0 ... 10 mS/cm*	± 0.01 pH ± 1% from range

*The Conductivity versions of the M20 series controllers/Transmitter are also available in other ranges, please feel free to ask for the possibilities.

The **M05** controllers come in single and dual measurement. The dual measurement M05 are always provided with pH priority functionality.

Additional features are:

- Automatic temperature compensation (ATC) with 1kOhm thermistor
- Three set-points (2 for the pH and 1 for the other measure) with free contact relays, selectable On-Off mode or proportional time/pause (PWM)
- Over time dosing alarm
- 1 Output relay for maintenance (probes cleaning)
- Two 4-20mA programmable output signal (1 for each measure) with selectable range and galvanic separation
- Two frequency output signal (1 for each measure) with selectable range
- One relay for alarm

Measurements: pH/Redox - pH/Conductivity



Mounting type:	Wall mount
Dimensions:	202 x 184 x 106 mm
Set points:	3 + 1 Alarm
Output:	4-20 mA, RS232, GSM
Waterproof housing:	Yes, IP65
Order code:	See below

Model	Order code	Measurement	Range	Resolution
M05 PH-RX	99653102	pH and Redox	0 ... 14 pH 0 ... 1000 mV	± 0.01 pH ± 1 mV
M05 PH-CD	99653103	pH and Conductivity	0 ... 14 pH 0 ... 1999 µS/cm*	± 0.01 pH ± 1% from range

*The Conductivity versions of the M20 series controllers/Transmitter are also available in other ranges, please feel free to ask for the possibilities.

XS Sensor electrodes

A very famous Swiss producer has developed a complete line of industrial pH and Redox electrodes, with glass and plastic body.

The new XS sensors are available with PG13.5 outer tread and S7 head. For basic and special applications, including models which are equipped with temperature sensor inside for easy cleaning and fast temperature compensation.

Some models are designed to help in daily work in GLP condition with non-removable internal serial number and certificate for final quality test.

All XS sensors are connectable to all common transmitter/controller brands in the market.

In addition we offer a complete range of Conductivity electrodes, Dissolved Oxygen electrodes, Connection Cables, Electrode Armatures, Controllers and Transmitters.

For all electrode separate comprehensive datasheets are available from our website, please see:

<http://www.hydrocal.nl/en/produkten/industrieel/industriële-elektrodes-2/>

Our customer support is available for every special application request or support for right type electrode indication.

INDUSTRIAL PH ELECTRODES

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl
Electrolyte:	Gel electrolyte
Length:	120 mm
Diameter:	12 mm
Order code:	32201021



Model	pH range	Temp °C	Pressure	Application
Basic Pro	0 ... 14	0...+60°C	0...2 bar	General, non-demanding

Shaft material:	Epoxy
Temperature probe:	No
Diaphragm:	Open Pore
Reference system:	Ag/AgCl
Electrolyte:	Polymer
Length:	120 mm
Diameter:	12 mm
Order code:	32201101



Model	pH range	Temp °C	Pressure	Application
Plastic Pro	0 ... 14	-10...+60°C	0...6 bar	General, Robust

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open Pore
Reference system:	Incapsulated
Electrolyte:	Polymer
Length:	120 mm
Diameter:	12 mm
Order code:	32201111



Model	pH range	Temp °C	Pressure	Application
Polymer Pro	0 ... 14	-10...+60°C	0...6 bar	Low conductivity, no clogging

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open Pore
Reference system:	Incapsulated
Electrolyte:	Polymer
Length:	120 mm / 225 mm
Diameter:	12 mm
Order code:	32201011 – 120 mm 32201051 – 225 mm



Model	pH range	Temp °C	Pressure	Application
Polymer HT Pro	0 ... 14	0...+130°C	0...6 bar	Chemical, pharmaceutical and
Polymer HT Pro 225	0 ... 14	0...+130°C	0...6 bar	sugar industries

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open Pore
Reference system:	Coated reference
Electrolyte:	Polymer
Length:	120 mm
Diameter:	12 mm
Order code:	32201061



Model	pH range	Temp °C	Pressure	Application
Polymer HA Pro	0 ... 14	0...+130°C	0...6 bar	Pharmaceutical and chemical process, low alkaline error, resistant to metals

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Coated reference
Electrolyte:	Gel electrolyte
Length:	120 mm / 225 mm
Diameter:	12 mm
Order code:	32201001 – 120 mm 32201041 – 225 mm



Model	pH range	Temp °C	Pressure *	Application
Gel HT Pro	0 ... 14	0...+130°C	0...16 bar	Chemical industry, oxides,
Gel HT Pro 225	0 ... 14	0...+130°C	0...16 bar	water, waste water

*0 ... 16 bar at 25°C, 0 ... 6 bar at 130°C

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open Pore
Reference system:	Coated reference
Electrolyte:	Polymer
Length:	120 mm
Diameter:	12 mm
Order code:	32201071



Model	pH range	Temp °C	Pressure	Application
Polymer HF Pro	0 ... 14	-5...+100°C	0...6 bar	Containing hydrofluoric acid

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open Pore
Reference system:	Incapsulated
Electrolyte:	Polymer PLUS
Length:	120 mm / 225 mm
Diameter:	12 mm
Order code:	32201121 – 120 mm 32201211 – 225 mm



Model	pH range	Temp °C	Pressure	Application
Polymer PLUS Pro	0 ... 14	0...+130°C	0...6 bar	Chemical and petrochemical industries, highly alkaline solutions, low conductivity
Polymer PLUS Pro 225	0 ... 14	0...+130°C	0...6 bar	Chemical and petrochemical industries, highly alkaline solutions, low conductivity

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Sleeve diaphragm
Reference system:	Incapsulated
Electrolyte:	3M KCl
Length:	120 mm
Diameter:	12 mm
Order code:	32201081



Model	pH range	Temp °C	Pressure	Application
Pure Pro	0 ... 14	0...+40°C	0...0.5 bar	Ion weak media, low conductivity

Shaft material:	Epoxy
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl
Electrolyte:	Gel electrolyte
Length:	120 mm
Diameter:	12 mm
Order code:	32105199



Model	pH range	Temp °C	Pressure	Application
Poliplast	0 ... 14	0...+60°C	0...6 bar	Basic applications

INDUSTRIAL Redox (ORP) ELECTRODES

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl
Electrolyte:	Gel electrolyte
Length:	120 mm
Diameter:	12 mm
Order code:	32201031



Model	Range mV	Temp °C	Pressure	Application
Basic ORP Platinum	±2000 mV	0...+60°C	0...2 bar	General, non-demanding

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open Pore
Reference system:	Incapsulated
Electrolyte:	Polymer
Length:	120 mm
Diameter:	12 mm
Order code:	32201131



Model	Range mV	Temp °C	Pressure	Application
Polymer ORP	±2000 mV	-10...+60°C	0...6 bar	Waste water treatment, swimming pools

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Coated reference
Electrolyte:	Gel electrolyte
Length:	120 mm
Diameter:	12 mm
Order code:	32201091



Model	Range mV	Temp °C	Pressure *	Application
Gel HT OPR	±2000 mV	0...+130°C	0...16 bar	Chemical industry, high temperature

*0 ... 16 bar at 25°C, 0 ... 6 bar at 130°C

INDUSTRIAL pH ELECTRODES WITH ATC

Shaft material:	Glass
Temperature probe:	Yes, Pt1000 (*)
Diaphragm:	Open Pore
Reference system:	Incapsulated
Electrolyte:	Polymer PLUS
Length:	120 mm / 225 mm
Diameter:	12 mm
Order code:	32201351- 120 mm 32201361- 225 mm



Model	pH range	Temp °C	Pressure	Application
Polymer PLUS VP 120	0 ... 14	0...+130°C	0...6 bar	Chemical and petrochemical industries, highly alkaline solutions, low conductivity
Polymer PLUS VP 225	0 ... 14	0...+130°C	0...6 bar	

Shaft material:	Glass
Temperature probe:	Yes, Pt100 (*)
Diaphragm:	Open Pore
Reference system:	Incapsulated
Electrolyte:	Polymer
Length:	120 mm / 225 mm
Diameter:	12 mm
Order code:	32201301- 120 mm 32201311- 225 mm



Model	pH range	Temp °C	Pressure	Application
Polymer HT VP 120	0 ... 14	0...+130°C	0...6 bar	Chemical, pharmaceutical and sugar industries
Polymer HT VP 225	0 ... 14	0...+130°C	0...6 bar	

Electrolyte and maintenance solutions

Order code:	Content:	Description
12005013	100 ml	3M KCl + AgCl XS Sensor Electrolyte solution
12005015	500 ml	3M KCl + AgCl XS Sensor Electrolyte solution
12005033	75 ml	1M LiCl in ethyl alcohol XS Sensor Electrolyte solution
3MKCL/100ml	100 ml	3M KCl XS Sensor Electrolyte solution
3MKCL/500mlS	500 ml	3M KCl XS Sensor Electrolyte solution
32208023	75 ml	GLYCERIN-KCl XS Sensor Electrolyte solution
32208033	75 ml	KNO ₃ 1M Electrolyte solution for XS Sensor STANDARD Ag
KCL/100ml	100 ml	XS Sensor STORAGE Solution
KCL/500mlS	500 ml	XS Sensor STORAGE Solution
CleanerA/100ml	75 ml	PROTEIN CLEANING Solution (pepsin) for XS Sensor
CleanerA/500mlS	500 ml	PROTEIN CLEANING Solution (pepsin) for XS Sensor
CleanerB/100ml	100 ml	DIAPHRAGM CLEANING solution (thiourea) for XS Sensor
CleanerB/500ml	500 ml	DIAPHRAGM CLEANING solution (thiourea) for XS Sensor
CleanerC/100ml	100 ml	REGENERATION Solution for XS Sensor pH electrode
CleanerC/500mlS	500 ml	REGENERATION Solution for XS Sensor pH electrode
CleanerD/100ml	100 ml	GENERAL CLEANING solution for XS Sensors pH electrode
CleanerD/500ml	500 ml	GENERAL CLEANING solution for XS Sensors pH electrode

INDUSTRIAL CONDUCTIVITY ELECTRODES

Shaft material:	Epoxy
Temperature probe:	Yes, Pt100 (*)
Plate:	Graphite
Length:	120 mm
Diameter:	12 mm
Cable length:	8 m
Order code:	32390001



Model	Range COND	Temp °C	Pressure	Application
SPT1	20µS/cm...20mS/cm	0...+60°C	0...6 bar	General industrial, water, waste water

Shaft material:	Glass
Temperature probe:	Yes, Pt100 (*)
Plate:	Platinum
Length:	120 mm
Diameter:	12 mm
Cable length:	5 m
Order code:	32390999



Model	Range COND	Temp °C	Pressure	Application
KI10	20µS/cm...200mS/cm	0...+100°C	0...6 bar	Chemical industry, water, waste water

Shaft material:	Epoxy
Temperature probe:	Yes, Pt100 (*)
Plate:	4 cell Graphite
Length:	120 mm
Diameter:	12 mm
Cable length:	5 m
Order code:	61200105



Model	Range COND	Temp °C	Pressure	Application
S411/4E	200µS/cm...1000mS/cm	0...+70°C	0...4 bar	Chemical industry, water, waste water, high conductivity values

Shaft material:	PVC
Temperature probe:	Yes, 1kOhm Thermistor (*)
Plate:	Stainless steel
Length:	35 mm
Diameter:	12 mm
Cable length:	3 m
Order code:	99210084



Model	Range COND	Temp °C	Pressure	Application
SCDLT K1	200µS/cm...200mS/cm	0...+60°C	0...6 bar	General industrial, water, waste water

(*) When you choose the combination of transmitter/controller and electrode please consider the correct temperature sensor for the automatic temperature compensation (ATC)

INDUSTRIAL DISSOLVED OXYGEN ELECTRODES

Shaft material:	Stainless steel
Temperature probe:	Yes
Electrolyte:	None
Length:	120 mm
Diameter:	12 mm
Order code:	242450-02



Model	Range DO	Temp °C	Pressure	Application
Visiferm DO 120	0.05 ... 300%	-10...+130°C	-1...12 bar	Chemical, pharmaceutical industry, biotechnology, food and beverage industry, water and sewage management

Shaft material:	Stainless steel
Temperature probe:	Yes
Electrolyte:	None
Length:	120 mm
Diameter:	12 mm
Cable length:	5 m
Order code:	99210006



Model	Range DO	Temp °C	Pressure	Application
Oxysens OXY1	0 ... 20 mg/l	0...+60°C	0...4 bar	water, swimming pools and fish farms

ELECTRODE CABLES

With the following parts you can construct your own (extension)cable:



*Recommended max. length for an extension cable is 20 meter. For cable exceeding 20 meter we recommend to use an amplifier.

The following are pre-assembled cable:

Lenght:	Order code:
3 m	33550733
5 m	33550663
10 m	33550803
20 m	33550763



Model	Diameter	Connector 1	Connector 2	Application
Coaxial Cable	5 mm	S7	Open end	All industrial pH (without ATC) and Redox Electrodes

Lenght:	Order code:
3 m	33550743
5 m	33550563
10 m	33550753
20 m	33550773



Model	Diameter	Connector 1	Connector 2	Application
Coaxial Cable	5 mm	S7	BNC	All industrial pH (without ATC) and Redox Electrodes

Length:	Order code:
3 m	33551091
5 m	33551101



Model	Wires	Connector 1	Connector 2	Application
VP6 Cable	7 wires	VP6	Open end	All industrial pH Electrodes with ATC

Length:	Order code:
3 m	355218
Other lengths available on request.	



Model	Wires	Connector 1	Connector 2	Application
VP8 Cable	9 wires	VP8	Open end	Industrial DO Electrodes



ELECTRODE ARMATURES

Material:	Nylon
Mounting thread:	½" NPT
Inner diameter	12 mm
PG13.5	No
Immersion:	12 mm
Order code:	00700101



Model	Temp °C	Pressure	Application
PS 100	0 ... +50°C	0 ... 1 bar	Standard electrode without PG13.5

Material:	Polypropylene
Mounting thread:	¾" NPT
Inner diameter	12 mm
PG13.5	Yes
Immersion:	23 mm
Order code:	VI81



Model	Temp °C	Pressure	Application
SONTACK PP	0 ... +100°C	0 ... 4 bar	Industrial electrode with PG13.5

Material:	Polypropylene
Mounting:	Open tank, channel
Inner diameter	12 mm
Outer diameter	40 mm
Cleaning connection:	Yes
PG13.5	Yes
Order code:	See model



Model	Length	Temp °C	Pressure	Application
VI-88N	1 m	0...+100°C	0...4 bar	Water, waste water, aquaculture, galvanic
VI-88-1.5N	1.5 m	0...+100°C	0...4 bar	
VI-88-2N	2 m	0...+100°C	0...4 bar	
VI-88-X	On request	0...+100°C	0...4 bar	

Material:	PVC
Mounting:	Open tank, channel
Inner diameter	12 mm
Outer diameter	40 mm
Cleaning connection:	No
PG13.5	Yes
Order code:	See model



Model	Suitable electrode	Length	Temp °C	Material	Application
33550943	PG13.5	40 cm	0...+60°C	PVC	Water, waste water, aquaculture
33550913	PG13.5	80 cm	0...+60°C	PVC	Water, waste water, aquaculture
33550944	SCDLT	40cm	0...+60°C	PVC	Water, waste water, aquaculture
33550914	SCDLT	80 cm	0...+60°C	PVC	Water, waste water, aquaculture

Material:	Polypropylene
Mounting:	Open tank, channel, pipe
Inner diameter	12 mm
Outer diameter	40 mm
Cleaning connection:	No
PG13.5	Yes
Order code:	See model



Model	Length	Temp °C	Material	Application
33412353	20 cm	0...+80°C	PPE	Water, waste water, aquaculture

Material:	PMMA (plexiglass)
Mounting thread:	2x 1/2" NPT
Inner diameter	2x Ø12 mm
PG13.5	No
Immersion:	2x 12cm
Order code:	99220001



Model	Temp °C	Pressure	Application
PS200	0 ... +50°C	0 ... 5 bar	Applications needing two basic electrodes

CALIBRATION SOLUTIONS

Calibration Buffers and Standards with N.I.S.T. Traceability

- Packaging 100ml, 250ml, 500ml bottle and 5 ltr cubitainer.
- 250ml, 500ml and 5 ltr are supplied with NIST traceable certificate.
- Economical 250ml and 500ml bottle with build-in dosing compartment, with proper amount for calibration and prevention of contamination.
- Temperature table, lot code, actual value and expiry date printed on the label.
- Colored solution for pH buffers for easy identification.



Value:	Accuracy:	Color:	Order code 100 ml:	Order code 250/500 ml:	Order code 5 ltr:
pH Buffers:					
pH 1.68	± 0.01	Colorless	pH1.68/100ml	pH1.68/500mlS	pH1.68/5ltr
pH 4.01	± 0.01	Red	pH4.01/100ml	pH4.01/500mlS	pH4.01/5ltr
pH 6.86	± 0.01	Colorless	pH6.86/100ml	pH6.86/500mlS	pH6.86/5ltr
pH 7.00	± 0.01	Yellow or Green	pH7.00/100ml	pH7.00/500mlS	pH7.00/5ltr
pH 9.18	± 0.02	Colorless	pH9.18/100ml	pH9.18/500mlS	pH9.18/5ltr
pH10.01	± 0.02	Bleu	pH10.0/100ml	pH10.0/500mlS	pH10.0/5ltr
Redox (ORP) Standards:					
200 mV	± 5 mV	Colorless	REDOX200/100ml	51100303 250ml	On request
475 mV	± 5 mV	Colorless	REDOX475/100ml	51100323 500ml	On request
650 mV	± 5 mV	Colorless	REDOX650/100ml	REDOX650/500mlS	On request
Conductivity Standards:					
84 µS/cm	± 1%	Colorless	EC84/100ml	EC84/500mlS	EC84/5ltr
147 µS/cm	± 1%	Colorless	EC147/100ml	EC147/500mlS	EC147/5ltr
1413 µS/cm	± 1%	Colorless	EC1413/100ml	EC1413/500mlS	EC1413/5ltr
12.88 mS/cm	± 1%	Colorless	EC1288/100ml	EC1288/500mlS	EC1288/5ltr
111.8 mS/cm	± 1%	Colorless	EC1118/100ml	EC1118/500mlS	EC111.8/5ltr

*Other value and volumes available, private labeling available. Please ask for the possibilities

