

Modular measuring system for water and waste water treatment

Modular measuring system for central process control

Specifically designed probe assemblies are necessary for mounting of the electrodes/sensors (flow-through or immersion application).

1 piece

pH/Temperature Transmitter

measuring range pH 0 ... 14; -10 ... 130°C, output signals 2 x 0(4) ... 20 mA or 0 ... 5 V, isolated; interface RS-232, relay output closing contact max. 125 V AC;

power supply 15 ... 24 V AC/DC; plastic case enclosure (23x99x112)mm for mounting on rail tracks DIN EN 50022-35, protection degree IP 40, ambient temperature 0 ... 50°C; electrical connections are mountable screw-terminals for sensors, signal wires and power supply; 3-pins socket for RS-232 cable connector, button for call up of the calibration mode and the pre-adjusted buffer solutions; configuration via RS-232 of calibration points, slope, asymmetrie, temperature compensation, analogue output signals and limit relay output

Type: MV 3010

1 piece

pH Combination Electrode with Measuring Cable

glass stem \varnothing 12 mm, immersion length 120 mm, 3 ceramic frits, zero point pH=7, gel-filled (non refillable), low maintenance electrode, Euro-Standard PG 13.5 threaded plug head coaxial S7-system; pH-range 0 ... 14; temperature range -5 ... 80°C, max. pressure 6 bar;

low-noise coaxial cable for connection between Transmitter and pH combination electrode; S7 plug head connector (protection standard IP 65)/ second side stripped tinned ends for connection with Transmitter, cable \varnothing about 5 mm; standard length 5 m;

Type: EGA 153 I with K 43/5

1 piece

Redox (ORP) Transmitter

measuring range -2000 ... 2000 mV; -10 ... 130°C, output signals 2 x 0(4) ... 20 mA or 0 ... 5 V, isolated; interface RS-232, relay output closing contact max. 125 V AC;

power supply 15 ... 24 V AC/DC; plastic case enclosure (23x99x112)mm for mounting on rail tracks DIN EN 50022-35, protection degree IP 40, ambient temperature 0 ... 50°C; electrical connections are mountable screw-terminals for sensors, signal wires and power supply; 3-pins socket for RS-232 cable connector, button for call up of the calibration mode and the pre-adjusted redox buffer solutions; configuration via RS-232 of calibration points, analogue output signals and limit relay output, calculation of the measured redox potential in relation to the standard hydrogen electrode

Type: MV 3015

1 piece

Redox/ORP Combination Electrode with Measuring Cable

glass stem \varnothing 12 mm, immersion length 120 mm, ceramic frit, platinum disc \varnothing 6 mm, reference system Ag/AgCl, 3 mol/l KCl, gel-filled (non refillable), low maintenance electrode, Euro-Standard PG 13.5 threaded plug head coaxial S7-system; temperature range -5 ... 80°C, max. pressure 6 bar;

low-noise coaxial cable for connection between Transmitter and redox/ORP combination electrode; S7 plug head connector (protection standard IP 65)/ second side stripped tinned ends for connection with Transmitter, cable \varnothing about 5 mm; standard length 5 m;

Type: EMC 33 I with K43/5

1 piece

Conductivity/Temperature Transmitter

measuring range 2 ... 200 $\mu\text{S}/\text{cm}$, 0 ... 2 mS/cm , 0 ... 20 mS/cm , 0 ... 100 mS/cm ; -10 ... 130°C, output signals 2 x 0(4) ... 20 mA or 0 ... 5 V, isolated; interface RS-232, relay output closing contact max. 125 V AC; power supply 15 ... 24 V AC/DC; plastic case enclosure (23x99x112)mm for mounting on rail tracks DIN EN 50022-35, protection degree IP 40, ambient temperature 0 ... 50°C; electrical connections are mountable screw-terminals for sensors, signal wires and power supply; 3-pins socket for RS-232 cable connector, button for call up of the calibration mode and the pre-adjusted calibration solutions; configuration via RS-232 of measuring ranges, cell constant, temperature compensation, cable offset, calibration solutions, analogue output signals and limit relay output

Type: MV 3020

1 piece

Conductivity Cell with Connection Cable

plastic body, \varnothing 12 mm, immersion length 120 mm; 2 parallel graphite electrodes (made of special graphite), low maintenance cell; with built-in temperature probe Pt 1000; cell constant about 1 cm^{-1} ; Multipin - Euro-Standard PG 13.5 threaded SixPlug plug head; measuring range 0...20 mS/cm ; temperature range - 5...80°C, max. pressure 6 bar;

rugged multipin screened cable for connection between Transmitter and conductivity cell with built-in temperature probe Pt 1000, SixPlug plug head cable socket (protection standard IP 67)/other side stripped tinned ends for connection with Transmitter, cable \varnothing about 5 mm; standard length 5 m;

Type: LTC 1/23 SMEK with K 18/5

1 piece

Oxygen/Temperature Transmitter

measuring range 0 ... 200% saturation, 0 ... 20 mg/l ; -10 ... 130°C, output signals 2 x 0(4) ... 20 mA or 0 ... 5 V, isolated; interface RS-232, relay output closing contact max. 125 V AC; power supply 15 ... 24 V AC/DC; plastic case enclosure (23x99x112)mm for mounting on rail tracks DIN EN 50022-35, protection degree IP 40, ambient temperature 0 ... 50°C; electrical connections are mountable screw-terminals for sensors, signal wires and power supply; 3-pins socket for RS-232 cable connector, button for call up of the calibration mode and the calibration points for water and gases; configuration via RS-232 of slope, B-value, air pressure, analogue output signals and limit relay output

Type: MV 3030

1 piece

Dissolved Oxygen Probe with Connection Cable

heavy-duty membrane covered amperometric Clarck probe with built-in temperature probe Pt 1000 in 4 wire connection for automatic temperature compensation and temperature measurement, incl. accessories (1 piece exchange membrane head, electrolyte); zero current free, extremely rugged multi layer membrane; air bubbles refused, minimum flow rate 5 cm/s , immersion length 120 mm, \varnothing 18 mm, process connection with PG 16 threaded sensor body, multipin SixPlug plug head connection system; measuring range 0 ...60 $\text{mg O}_2/\text{l}$, temperature range -5 ...50°C, max. pressure 3 bar above atmospheric;

rugged multipin screened measuring cable for connection between Transmitter and dissolved oxygen probe with built-in temperature probe Pt 1000, SixPlug plug head cable socket (protection standard IP 67)/ other side stripped tinned ends for connection with Transmitter, cable \varnothing about 5 mm, standard length 5 m

Type: MF 39 with K39/5

1 piece

Power Supply Unit for MV 3010, MV 3015, MV 3020, MV 3030

compact unit for mounting on rail tracks DIN EN 50022-35, dimension 27 x 75 x 100 mm (L x W x H), output capacity 234 W, input voltage range 90 ... 260 V AC, output voltage 24 V DC/1A

Type: TCL 024-124

1 piece

Accessories and Replacement Parts

triple – set NBS – Standard Buffer Solution 1000 ml pH 4.01; pH 6.87; pH 9.18 (pH value 25°C); 250 ml cleaning solution, re-conditioning solution and filling/storage solution 3 Mol KCl,

Type: NBS-Standard Buffer Solutions; Maintenance Kit pH

1 piece

Accessories and Replacement Parts

250 ml redox buffer solution $U_H = 427$ mV, pH=7 (25°C) and 250 ml filling/storage solution 3 Mol KCl,

**Type: Redox Buffer Solution $U_H = 427$ mV, pH=7
Filling/Storage Solution 3 Mol KCl**

1 piece

Accessories and Replacement Parts

1000 ml conductivity standard solution 0.1 N KCl (12.9 mS/cm, 25°C)

Type: Conductivity Standard Solution 0.1 N KCl

1 piece

Accessories and Replacement Parts

maintenance kit with 2 pieces replacement membrane heads, 6 ampoules electrolyte solution

Type: Maintenance Kit for Oxygen Probe MF 39