Water quality measurement for raw- and drinking water

Multi parameter measuring system with flow-through housing for mounting in pipes (complete mounted on a water quality panel)

1 piece

Water Quality Panel

PVC panel (dimension about 600 x 600 mm, colour white), complete pre-mounted with pipes (DN 15), calibration assembly, shutoff ball valves for checking of sample water, rotameter (15 ... 150 l/h) and shutoff ball valves for dosing (of the measuring medium water)

Type: **Water Quality Panel Standard**

1 piece

Multi Parameter Controller

microprocessor based Multi Parameter Controller for maximum 4 internal and up to 12 external measuring modules, with respectively 1 piece measuring modules for measuring of pH value, redox/ORP, dissolved oxygen/temperature and conductivity, isolated inputs; streaming control via switch contacts on rotameter, electromagnetic compatibility to 89/336/EWG; EN 61326, NAMUR recommendation NE 21,

measuring ranges: pH 0 ... 14
-2,000 ... + 2,000 mV absolute or temperature compensated calculation of the redox potential in relation to the Standard Hydrogen Electrode in accordance with DIN 38404 T6.
0 ... 20 mg O_2 /l,
- 10 ... 50°C
0 ... 100 mS/cm

corrosion and weather resistant aluminium case with protection standard IP 65 (suitable for wall mounting and with additional accessory for post mounting) with strip compartment; power supply 115/230 V AC; 48 ... 63 Hz; about 25 VA; permissible ambient temperature -10°C ... 55°C; automatic temperature compensation; manual and automatic calibration; touch-screen display, back-lighted, for maximum 16 measuring parameters and device status; 4 analog outputs 0(4) ... 20 mA; measuring span for analog outputs free scaleable, digital interface RS-232 or RS-485 / CAN bus, integrated data logger (for about 50,000 values); log-book for storage of parameter alterations, calibration values and error registrations, (about 200 activities); 4 on/off floating control relay outputs for switch and alarm function, configurable in any combination, maximum 5 A, 250 V AC, optional controller module with 2 selectable PID controller (for control of valves and dosing pumps) as constant analog-, pulse length- or pulse frequency controller

Type: **KM 2000**

1 piece

Flow-Through Housing

flow-through housing with 3 sensor ports PG 13.5 for pH combination electrode, redox/ORP combination electrode and conductivity cell connected with one bevel seat flow-through housing for dissolved oxygen probe; application in pipes with screw (DN 15), hose (DN 15) or flange (DN 20) connection; material PP, PVC; max. pressure 1 bar, max. temperature 50°C,

Type: **AD 23/3-82**

1 piece

pH Combination Electrode

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

Type: **EGA 173 I**

1 piece

Redox/ORP Combination Electrode

glass stem ø 12 mm, immersion length 120 mm, ring-shaped sleeve junction, platinum disk ø 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 S7-system; temperature range -5 ... 80°C, max. pressure 6 bar

Type: **EMC 173 I**

1 piece

Dissolved Oxygen Probe

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, ø 18 mm, process connection with PG 16 threaded sensor body, multipin SixPlug plug head connection system; measuring range 0 ...60 mg O_2/l, temperature range –5 ...50°C, max. pressure 3 bar above atmospheric;

Type: **MF 39**

1 piece

Conductivity Cell

glass body, ø 12 mm, immersion length 120 mm; 2 parallel platinum electrodes, platinized, with built-in temperature probe Pt 1000; cell constant about 1 cm^{-1}; Multipin PG 13.5 threaded SixPlug plug head; measuring range 0...20 mS/cm; temperature range - 5...80°C, max. pressure 6 bar;

Type: **LTG 1/23 SMEK**

1 piece

Measuring Cable

rugged multipin screened measuring cable for connection between Multi Parameter Analyzer 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 Analyzer, cable ø about 5 mm, standard length 2 m

Type: **K 39/2**

1 piece

Connection Cable

rugged multipin screened cable for connection between Multi Parameter Analyzer and conductivity cell with built-in temperature probe Pt 1000, SixPlug plug head connector (protection standard IP 67)/other side stripped tinned ends for connection with Analyzer, cable ø about 5 mm; standard length 2 m;

Type: **K 18/2**

2 pieces

Measuring Cable

low-noise coaxial measuring cable for connection between Multi Parameter Analyzer and pH and redox/ORP combination electrode, S7 plug head connector (protection standard IP 67)/second side stripped tinned ends for connection with Analyzer, cable ø about 5 mm; standard length 2 m;

Type: **K 43/2**

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,
250 ml conductivity standard solution 0.01 N KCl (1.41 mS/cm, 25°C),
250 ml redox buffer solution U_H = 427 mV, pH=7 (25°C)
maintenance kit with 2 pieces replacement membrane heads, 6 ampoules electrolyte solution

Type: **NBS-Standard Buffer Solutions; Maintenance Kit pH**
Conductivity Standard Solution 0.01 N KCl
Redox Buffer Solution U_H = 427 mV, pH=7
Maintenance Kit for Oxygen Probe MF 39