

## Water quality monitoring for 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 module for measuring of pH value, redox/ORP, conductivity/temperature and 1 piece measuring module for chlorine, 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 ... 100 mS/cm

0 ... 2 mg/l total chlorine

5 ... 45°C

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; 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 analog outputs 0(4) ... 20 mA; measuring span for analog outputs free scaleable, 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 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 insertion of pH combination electrode, redox/ORP combination electrode and conductivity cell and 1 sensor port for insertion of chlorine measuring sensor, application in pipes by means of DN 10 hose connection or screw connection; material acrylic glass, max. pressure 1 bar; max. temperature 50°C

**Type: AD2000**

1 piece

#### **pH Combination Electrode**

glass stem  $\varnothing$  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  $\varnothing$  12 mm, immersion length 120 mm, ring-shaped sleeve junction, platinum disk  $\varnothing$  6 mm; reference system Ag/AgCl, 3 mol/l KCl, gel-filled (non refillable), nearly maintenance free 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

**Conductivity Cell**

glass body,  $\varnothing$  12 mm, immersion length 120 mm; 2 parallel platinum electrodes, platinized, with built-in temperature probe Pt 1000; cell constant about 1 cm<sup>-1</sup>; 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

**Chlorine Measuring Sensor**

long term stable membrane covered amperometric sensor with high zero point stability for measurement of total chlorine in comparison with the photometric DPD method, pH and temperature compensated, pH range pH 6...10, material PVC, stainless steel, length 220 mm,  $\varnothing$  25 mm, mountable connection cable length 2 m, measuring range 0...2 mg/l total chlorine; temperature range 5...45°C; max. pressure 0.5 bar

**Type: CP 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 cable socket (protection standard IP 67)/other side stripped tinned ends for connection with Analyzer, cable  $\varnothing$  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-, redox/ORP combination electrode; S7 plug head connector (protection standard IP 65)/second side stripped tinned ends for connection with Analyzer, cable  $\varnothing$  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)

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