

## Dissolved oxygen measurement for water and waste water treatment

### Dissolved oxygen measuring system with flow-through housing for mounting in pipes

1 piece

#### **Multi Parameter Controller**

microprocessor based Multi Parameter Controller for maximum 4 internal and up to 12 external measuring modules, with 1 piece measuring module for measuring of dissolved oxygen and temperature (additional extension for further parameters is possible, i.e. for dissolved oxygen, conductivity, pH-value, redox/ORP); isolated inputs; electromagnetic compatibility to 89/336/EWG; EN 61326, NAMUR recommendation NE 21,

measuring ranges: 0 ... 20 mg O<sub>2</sub> /l, 0 ... 120 % air saturation; -10 ... 50°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; 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**

bevel seat flow-through housing for insertion of the dissolved oxygen probe, special construction for self cleaning action of the dissolved oxygen probe, 1 port; application in pipes by means of DN 25 glue port (other ports available on request like hose connection or screw connection); material PVC; max. pressure 5 bar (40°C); max. temperature to 50°C

**Type: AD 82**

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<sub>2</sub>/l, temperature range -5 ...50°C, max. pressure 3 bar above atmospheric;

**Type: MF 39**

1 piece

#### **Measuring Cable**

rugged multipin screened measuring cable for connection between Controller and dissolved oxygen probe 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 39/2**

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**