

# Product information

Measuring and control equipment



**dinotec**  
Water & Pool Technology



PC DYNAMICS professional (chlorine, redox, pH)  
incl. measuring accessories, w/o dosing equipment on wall  
mounting plate  
Version 2013

**Art. no.: 0133-290-91**

## Description

Microprocessor-controlled measuring and control device, optionally for redox / pH or Poolcare (time-controlled) / pH, in splash-proof plastic housing, wired ready for connection 230V/50Hz. Display of measuring values on backlit graphical display with alphanumeric characters. Menu navigation via clear text display with selection of the desired language. Operating status, warning and alarm messages in clear text via the status bar on the display.

Compact measuring and control device for the measuring options:

- ORP, pH, temperature and sample water deficiency
- Poolcare (time-controlled), pH, temperature and sample water deficiency

Free switching between measurement options.

By adding the "potentiostatic measuring board for the Poolcontrol DYNAMICS", it is possible to implement additional measuring options.

Characteristics of system unit in wall-mounted case for disinfection and dosing equipment:

- Microprocessor-controlled measuring and control device
- IP 65
- Clear graphics display
- Logical menu structure for an easy adjustment of setpoints, limit values and parameters
- Configuration menu for selection of measurement technology and other functions
- Password protection to prevent unauthorized operation
- Multilingual system / language selection
- Measuring input for measurement of ORP
- Measuring input for measurement of pH
- Measuring input temperature measurement
- Integrated standard controls for disinfection, pH correction
- pH reduce and pH raise can be connected simultaneously
- Control of pH raise or flocculant dosing optional
- Automatic switch-on delay
- Sample water monitoring

- Dosing time monitoring
- Empty warning contact for container fill level
- Integrated alarm relay
- Interfaces for connection to dinowin and dinotecNET+
- Analog output for output of hygiene parameters

Compact measuring cell universal fm 5/3 for 3 probes incl. flow measurement/restriction for sample water return or free drain.

Pressure-resistant compact measuring cell made of PP for a potentiostatic probe (such as Cl<sub>2</sub>, ClO<sub>2</sub>, O<sub>3</sub> or Poolcare), a pH and a redox probe.

Integrated turbine for recording the sample water flow and for a flow compensation of the potentiostatic measurement. The maximum flow is limited by means of a flow restrictor.

The counter electrode required for potentiostatic measurement is pre-assembled in the compact measuring cell. A sampling valve is integrated in the measuring cup which can be easily unscrewed. The compact measurement cell can be operated under pressure or depressurized.

**Note:** Can be used for water with a chloride concentration of less than 500mg/l

The fiber filter is used to retain impurities in the sample water to prevent entry in the measuring cell.

Fiber filter with transparent filter cup and cleanable strainer, small mesh size, standardized connections for installation in front of a measuring cell.

Measuring accessories for measurement of the parameters chlorine, redox and pH.

This includes:

- 1x potentiostatic probe for free chlorine
- 1x redox measuring probe without reference system
- 1x pH measuring probe
- 1 x cleaning material liquid
- 1 x special cleaning paste
- 1 x calibration solution pH 4.0/50 ml
- 1 x calibration solution pH 7.0/50 ml

## Technical data

|  |  |
|--|--|
| System enclosure:                                | Plastic housing, degree of protection: IP 65   |
| System enclosure dimensions:                     | 260 x 260 x 85 mm (W x H x D)  |
| Weight:  | approx. 1.5 kg   |
| Mains voltage:                                   | 115 / 230 V/AC, 48-63 Hz   |
| Power consumption:                               | 10 VA (without metering technology)  |
| Display:   | via large-area graphical display 100 x 30mm  |
| Operation:                                       | Plain text menu with buttons   |
| Language:  | Language selection   |
| Operating temperature:                           | 5 to +40 °C  |
| Storage temperature:                             | -20 to +65 °C  |
| Rel. humidity:                                   | max. 90% at 40 °C, non-condensing  |
| Safety monitoring:                               | <ul style="list-style-type: none"> <li>• Input dosing stop (e.g. flow sensor)</li> <li>• Monitoring measuring water flow</li> <li>• Collective alarm / alarm relay</li> <li>• Alarm display on the screen in plain text</li> <li>• Flashing display illumination to indicate an alarm condition</li> <li>• Dosing time monitoring</li> </ul> |
| <b><u>Interfaces:</u></b>                        |  |
| RS 485:  | for connection to dinowin / Profibus gateway / etc.  |
| dinotecNET+:                                     | for connection to dinotecNET+ as a field device  |
| <b><u>Redox measuring amplifier:</u></b>         |  |
| Measuring range:                                 | -1500mV to +1500mV   |
| Resolution:                                      | 1 mV   |
| Ambient temperature influence:                   | 50ppm/K (12mV)   |
| Reference temperature:                           | 23 °C  |
| Input resistance:                                | > 10 <sup>12</sup> Ohm   |
| Redox measurement:                               | via dip-type measuring chain without drainage system   |
| Calibration:                                     | not required   |
| <b><u>pH measuring value amplifier:</u></b>      |  |
| Measuring range:                                 | -1500mV to +1500mV   |
| Resolution:                                      | 0.01 pH or 1 mV  |
| Ambient temperature influence:                   | 50ppm/K (12mV)   |
| Reference temperature:                           | 23 °C  |
| Input resistance:                                | 10 <sup>12</sup> Ohm   |
| Calibration pH:                                  | Optional one-point or two-point calibration  |
| Electrode test:                                  | automatically after calibration  |
| Temperature compensation of the pH value:        | can be set automatically or manually via PT1000  |
| <b><u>Temperature:</u></b>                       |  |
| Temperature input for sensor:                    | PT1000   |
| Measurement range:                               | 0 to +60 °C (+/-1%)  |
| <b><u>Inputs/outputs, control behaviour:</u></b> |  |
| Control response:                                | Selectable P, PI or PID control  |
| Control:   | Optional 1-point or 2-point control  |
| Binary outputs:                                  | 4 volt-free output relays for chlorine, lower pH and raise pH (pulse length, pulse frequency, on/off), alarm   |
| Alternatively to raising pH:                     | Flocculation dosing On/Off   |
| Maximum contact load (230V AC):                  | 370W (inductive), 500W (resistive load)  |
| Maximum switching current:                       | 30V/10A, 115V/0.3A, 230V/0.12A   |

|   |  |
|---|--|
| Digital inputs:                         | Empty alarm chlorine, pH lowering, dosing stop |
| Analogue output:                        | 0(4)-20mA for single measured value (optional) |
| Conductor cross-section terminal block: | 0.25 - 2.5mm <sup>2</sup>                      |

#### **universal FM 5/3**

|   |   |
|---|---|
| Threaded connection for measuring probes: 3 x PG 13.5                     |   |
| Threaded connection for temperature sensor PT 1000 with straight fitting: |   |
|   | M 12 x 1  |
| Max. pressure:  | 10 bar at 20 °C                                 |
| Max. sample water temperature:  | 70°C  |
| Sample water flow:  | 40 l/h - 120 l/h                                |
| Flow restriction:   | 120 l/h   |
| Sample water monitoring:  | < 40 l/h  |
| Flow measurement:   | Sample water turbine with Hall-effect generator |
| Min. differential pressure:   | 0.3 bar   |
| Connection supply and drain:  | 8 mm plug-in system                             |
| Material:   | PP  |
| Dimensions (mm):  | 150 x 240 x 110 (wxhxd)                         |

#### **Fibre filter**

|                       |                        |
|-----------------------|------------------------|
| Holder made of        | PP black               |
| Filter cup made of    | PA transparent         |
| Inlet/outlet          | ¼" inside              |
| Operating pressure    | max. 8 bar             |
| Operating temperature | min. 0°C to max. 50°C  |
| Mesh size             | 0.25mm                 |
| Dimensions:           | 58 x 58 x135mm (wxdxh) |
| Weight                | Approx. 0.15 kg        |

#### **Measuring accessories**

|                        |                                  |
|------------------------|----------------------------------|
| Operating temperature: | 0 to +45°C                       |
| Storage temperature:   | +20 to +65°C                     |
| Rel. humidity:         | max. 90% at 40°C, non-condensing |

#### **Application**

For water treatment in swimming pools, hot tubs and the like.



**0101-013-00**

Reed contact float, red  
for Inline system chlorine



**0101-120-00**

Fiber filter 3/4", connection 8/6 mm  
with screen tube 0.5mm,  
hose connection 8/6 mm on both sides



**0101-139-00**

Calibration solution pH 4.0, 50 ml



**0101-140-00**

Calibration solution pH 7.0, 50 ml



**0101-158-00**

Connection fitting GRP 1/4" x 8/6 mm  
Straight version, for sample water, with union nut



**0111-103-00**

Redox electrode without reference system  
for dsc compact systems  
and Poolcontrol 1000/S/avant



**0121-104-01**

Chlorine electrode, potentiostatic, WE/S  
for measurement of free chlorine  
gold ring



**0161-101-01**

pH combination electrode (standard), WE/S  
for all measuring and control devices



**0181-109-00**

Measuring cable for measuring electrodes (standard)  
pH and redox, length: 1.2 m



**0181-109-05**

Measuring cable with integrated reference cable  
for pot. measurements (chlorine, ozone, Poolcare),  
with plug, length 1.2 m



**0181-184-01**

Special liquid cleaner for all measuring electrodes



**0181-185-00**

Special cleaning paste  
for the precious metal ring of electrodes

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**Do you have any questions? Our hotline will be happy to help.**

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*Simply enjoy the best water!*