

Product information

Measuring and control equipment



dinotec
Water & Pool Technology



PC Dynamics Professional (chlorine, redox, pH)
with dinodos easy, incl. measuring and dosing accessories on
WMP

Version 2013

Art. no.: 0133-270-91

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 Cl₂, ClO₂, O₃ 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 and pH.

This includes:

- 1x potentiostatic probe for free chlorine
- 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

Microprocessor-controlled peristaltic dosing pump for an automatic addition of any kind of liquid media, even smallest quantities.

With stepper motor and continuously variable digital speed control. Activation by the touch of a button or control via switching contact (ON/OFF), current and frequency control.

The delivery rate is infinitely variable via the control or two potentiometers on the pump.

With integrated dosing pump hose and hose connector.

Canister low level signal input and fault output are included, a hose rupture is detected automatically. The pump is safe for continuous operation and features a thermal protection.

It can be easily ventilated by the touch of a button and can dose at 100 percent capacity for a minute by pressing a button.

Operating conditions are signalled via LEDs.

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"> • Input dosing stop (e.g. flow sensor) • Monitoring measuring water flow • Collective alarm / alarm relay • Alarm display on the screen in plain text • Flashing display illumination to indicate an alarm condition • Dosing time monitoring
<u>Interfaces:</u>	
RS 485:	for connection to dinowin / Profibus gateway / etc.
dinotecNET+:	for connection to dinotecNET+ as a field device
<u>Redox measuring amplifier:</u>	
Measuring range:	-1500mV to +1500mV
Resolution:	1 mV
Ambient temperature influence:	50ppm/K (12mV)
Reference temperature:	23 °C
Input resistance:	> 10 ¹² Ohm
Redox measurement:	via dip-type measuring chain without drainage system
Calibration:	not required
<u>pH measuring value amplifier:</u>	
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 ¹² 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
<u>Temperature:</u>	
Temperature input for sensor:	PT1000
Measurement range:	0 to +60 °C (+/-1%)
<u>Inputs/outputs, control behaviour:</u>	
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 ²

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 x 135mm (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

dinodos START

Mains voltage:	230V +/-10 %, 50/60Hz
Power consumption:	approx. 16 VA max.
Protection class:	IP 65
Dimensions housing (w x h x d):	approx. 170 x 90 x 130 mm
Weight:	approx. 1.5 kg
Permissible ambient temperature:	+10 to +45 °C
Drive:	Stepper motor
Pump hose:	compl. with connection pieces for suction line D4
Capacity max.:	approx. 0.045-9.0 l/h (infinitely variable), at a counterpressure of max. 1.5 bar
Speed range:	0.01 rpm up to 100 rpm
Frequency range pulses:	0.02 pulse/sec. - 1 pulse/sec.
Suction lift max.:	1.80 m
Operation:	Capacity infinitely adjustable via two potentiometers
Control methods:	Choose between: <ul style="list-style-type: none"> • potential-free contact input (NOC)

- Current input 4-20mA (4mA=0%, 20mA=100%)
- Current input 20-4mA (4mA=100%, 20mA=0%)
- Frequency control

Empty signal connection:	Normally closed contact / normally open contact (switchable)
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Hose leak detection:	Integrated contacts in pump housing
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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



0181-178-01

Ball valve R 1/4" male/female in PVC
for water sampling etc.



0181-184-01

Special liquid cleaner for all measuring electrodes



0181-185-00

Special cleaning paste
for the precious metal ring of electrodes



0284-025-00

Injection valve, DN 4, R 1/4", 30 mm, PVC
Hose connection 4/6 mm



0284-098-00

Suction line, flexible, with lid screw MÜ 61
Without float switch, ball check valve and plug
Hose 6/4mm, DN 4 1.5m, for dinodos Easy, START,
Concept pumps

dinotec GmbH

Water and Pool Technology
Philipp-Reis-Str. 28
D-61130 Nidderau/Germany

Tel: +49 (6187) 41379-0
Fax: +49 (6187) 41379-90
Hotline: +49 (6187) 41379-72
E-Mail: mail@dinotec.de
Internet: www.dinotec.de

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

Status: 16.06.2026

Simply enjoy the best water!