



# Pool management

with

# "All inclusive package"



## All inclusive:

*Measurement, control, dosing*

*Filter control*

*Automatic backwash via piston valve*

*Control of multistage filter pumps*

*Control of attractions*

*Lighting control*

*Temperature control*

*Solar control*

*Level control in skimmer pool*

*Remote control and maintenance*

The smart dinoTouch+ includes almost all features desired in private swimming pools as standard. In addition, the superior control system provides sufficient room for extensions.

The preassembled wall mounting plate and integrated configurator ensure a fast installation and commissioning.

# *dinoTouch+*

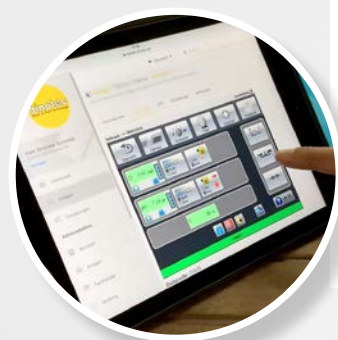
# dinoTouch+

*...and the system offers even more!*



## Dosing technology

The dinoTouch+ allows control of up to 4 dosing applications as standard. You can choose disinfection (either dosing pump or inline electrolysis), pH raise, pH lower, flocculation or addition of an additive (Pool-izei, Nova Crystal, etc.).



## Remote control & maintenance

The dinoTouch+ can be remotely controlled around the clock from anywhere via the secure dinoRemote. After approval, specialist dealers and/or dinotec can access the system quickly and conveniently. This ensures operational reliability and reduces costs.



## Energy savings

Control of frequency converter or filter pump with 3 fixed frequencies



### Main functions

	Inclusive	Optional	Best water quality	Convenience	Reduced operating costs
Measurement, control, dosing	✓		✓	✓	✓
Filter control	✓		✓	✓	
Automatic backwash via piston valve	✓		✓	✓	
Control of frequency converter or filter pump with 3 fixed frequencies	✓		✓		✓
Control of attractions	✓			✓	
Lighting control	✓			✓	
Temperature control	✓			✓	✓
Solar control	✓			✓	✓
Level control in skimmer pool	✓			✓	
Control of up to 4 dosing applications	✓		✓	✓	✓
Control of a dinUV	✓		✓		✓
Remote control and maintenance	✓		✓	✓	✓
Control of a pool cover	✓			✓	✓
Conductivity measurement		✓	✓		
Control of frequency-controlled filter pump		✓	✓		✓

## Technical data:

<b>Mains voltage:</b>	85 – 265 V/AC (48-63 Hz)
<b>Power consumption:</b>	50 VA
<b>Protection class:</b>	IP 65
<b>Dimensions housing (w x h x d):</b>	approx. 500 x 300 x 150 mm
<b>Weight:</b>	approx. 2.5 kg
<b>Permissible ambient temperature:</b>	up to +50°C
	-20°C to +65°C
<b>Permissible humidity:</b>	max. 90 % at +40 °C (non-condensing)
<b>Storage temperature pH electrode</b>	-5 °C to + 40 °C
<b>Control outputs:</b>	proportional via relay, optionally pulse length, pulse frequency or on/off
<b>Operation:</b>	by Touch screen or dinoRemote
<b>Display:</b>	Colour graphic display 7"
<b>Language:</b>	multilingual
<b>Wall mounting plate:</b>	with quick assembly device, pre-assembled 690 x 690 mm
<b>Alarm:</b>	alarm relay (collective alarm) with voltage-free two-way contact

### Poolcare (active oxygen, chlorine-free):

<b>Addition of oxidant:</b>	time-controlled
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### Chlorine measuring and control part:

<b>Measurement of oxidant:</b>	potentiostatic with chlorine electrode (3-electrode system)
<b>Measuring range:</b>	0.0 – 4.0 mg/l chlorine
<b>Resolution:</b>	0.01 mg/l
<b>Control type:</b>	PID
<b>Continuous dosing control:</b>	adjustable
<b>Electrode check:</b>	by means of slope adjustment (slope monitoring), fixed zero point
<b>Calibration:</b>	manual by measurement of the actual content of free chlorine at the measuring cell outlet or in the pool

### Redox measurement and control:

<b>Measurement:</b>	with platinum electrode
<b>Measuring range:</b>	0 - 1000 mV
<b>Resolution:</b>	1 mV
<b>Control type:</b>	P, PI, PID controller can be selected
<b>Pulse frequency:</b>	optionally pulse-pause
<b>Control outputs:</b>	voltage outputs for pulse length controller are preset (fixed)

### pH measurement and control:

<b>pH measurement:</b>	via combination electrode with KCL filling
<b>Measuring range:</b>	0 – 14 pH
<b>Resolution:</b>	0.01 pH
<b>pH control direction:</b>	pH raise/pH reduce (switchable)
<b>Continuous dosing control:</b>	adjustable
<b>Temperature compensation</b>	Yes
<b>Slope monitoring:</b>	Yes
<b>Calibration:</b>	manual with calibration solution pH 7.0 and pH 4.0
<b>Electrode check:</b>	by means of a compensation of slope and zero shift, monitoring of slope and zero point

### Dosing pump:

<b>Pump type:</b>	dinodos EASY or dinodos START
<b>Pump type:</b>	peristaltic dosing pump
<b>Capacity:</b>	45-9,000 ml/h (dinodos EASY), 45-11,000 ml/h at a counterpressure of max. 1.5 bar (adjustable)
<b>Dosing pump for additive:</b>	adjustable via weekly timer
<b>Inline electrolysis:</b>	depending on model
<b>Conductivity measurement:</b>	to enable the electrolysis system

### Filter control:

<b>Time switch:</b>	weekly timer freely adjustable, max. 20 switching times
<b>Backwash:</b>	manual, automatic with BESGO valve

### Temperature control:

<b>Setting range:</b>	+5°C to +40°C
<b>Switching output (heating):</b>	potential-free two-way contact
<b>Collector sensor:</b>	optional -50 °C to +150 °C
<b>Switching output (solar):</b>	potential-free two-way contact
<b>Priority circuit 'solar':</b>	adjustable via menu



## Watercom ecoLine

the "economizer"

### Pre-configured, choose from these models:

dinoTouch+ redox, pH with dinodos EASY or dinodos START pumps

dinoTouch+ free chlorine, redox, pH with dinodos EASY or dinodos START pumps

dinoTouch+ redox, pH with dinodos EASY pump for inline electrolysis

dinoTouch+ free chlorine, redox, pH with dinodos EASY pump for inline electrolysis

dinoTouch+ Poolcare time-controlled, pH with dinodos EASY or dinodos START pumps

Watercom ecoLine with cartridge filter, inline solo electrolysis, bio UV system, Vitalia VS filter circulation pump

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