

## Compact swimming pool measurement & regulation unit M 5265 C



- 3 measuring electrodes: platinum / platinum + reference electrode
- Continuous measurements: free chlorine, pH, Redox, Chlorine dioxide, temperature
- 2 analog and 3 digital outputs for metering pumps and motor valve
- Stable measurement - open flow measuring cell with constant flow

- ⇒ **CONTINUOUS CLEANING OF THE MEASURING ELECTRODES BY A STEPPER MOTOR**
- ⇒ **INSIGHT INTO THE MEASURING CELL PARAMETERS TO QUICKLY DETECT ANY EFFECT OF DISTURBING ELEMENTS**
- ⇒ **MODULAR ELECTRONICS FOR SIMPLE SERVICE**
- ⇒ **ALARM FOR MEASURING CELL OR REGULATION ERRORS**
- ⇒ **CANBUS COMMUNICATION TO EASILY CONNECT SEVERAL UNITS TO THE CONTROL UNIT**
- ⇒ **CLEAR GRAPHICAL DISPLAY FOR ALL MEASURED PARAMETERS**
- ⇒ **ISOLATED CURRENT OUTPUTS**

### GENERAL

The unit M 5265C is intended for measurement and control of processes in swimming pool water.

Basic parameters of measurement are:

free Chlorine, Chlorine dioxide, pH, Redox and temperature.

The unit provides the possibility to combine different measurement and regulation modules, that can measure only one parameter (chlorine, pH, redox potential), or a combination of modules, that measure all above mentioned parameters.

Amperometric measurement method of chlorine with two electrodes and an additional third reference electrode provides constant and continuous measurement.

The unit consists of the following subassemblies:

- a mechanical filter sample
- an indicator of the flow of the sample
- self-cleaning chlorine measuring cell
- pH and redox electrodes
- a measurement & regulation module
- cover

User interfaces for parameterization and calibration are carried out via graphical LCD displays, for each measured parameter separately.

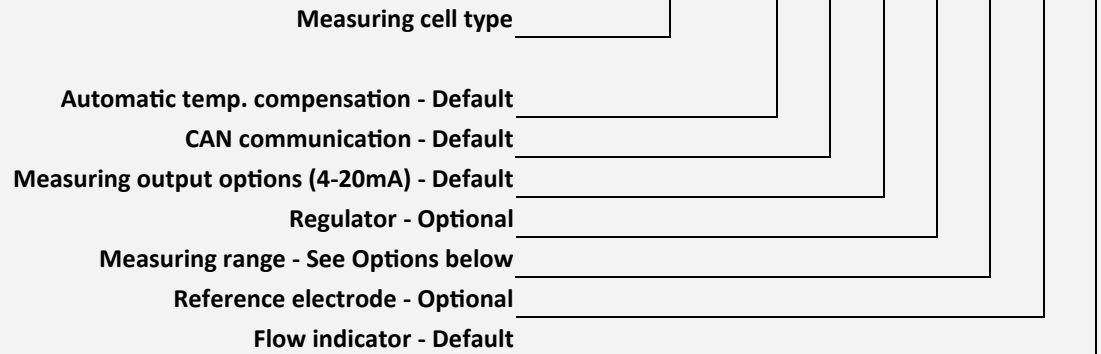
Control and regulation of disinfection processes are enabled by analog and digital outputs and CANbus digital communication. Control modules support connection of actuators - dosing pump with analog and digital inputs as well as solenoid and motorized valves - for two-point and continuous dosing.

Software design for control modules contain several protective mechanisms against overdosing.

ORDER CODE



M 526 5C / A D C R 1 S F



OPTIONS:

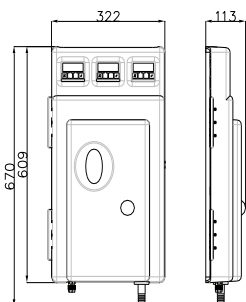
- Measuring cell type: "5" for Au-Cu  
"6" for Pt-Pt  
"7" for Au-Pt
- Regulator: yes "R", without it the letter is not written in
- Measuring range: "1" for 0 to 1 mgCl<sub>2</sub>/l  
"2" for 0 to 2 mgCl<sub>2</sub>/l  
"X" on request!  
"pH" for 2 to 12 pH  
"Redox" for 0 to 1000 mV
- Reference electrode: yes "S", without it the letter is not written in

TECHNICAL DATA



Technical data:	pH	Redox	Cl <sub>2</sub>
Measuring range (M.R.)	0 -14 pH	-2000 +2000 mV	0 - 1 mg/l
Measured value resolution	0,01pH	1 mV	0,01 mg/l
Deviation of indication, measured value	max. 0,5% from MR	max. 0,5% from MR	
pH range			6,5...8,5
Automatic temperature compensation range	0...+50°C		
<b>Electrical data:</b>			
Supply voltage	24 VAC±20% or 24 VDC±20%		
Power	2 W Maximum	2 W Maximum	5 W Maximum
Isolation voltage	500V ; to sensor, output signal, regulator connections		
Current output connector (each electronic):			
Modules	2		
Current range	2 x 4...20 mA	2 x 4...20 mA	2 x 4...20 mA
Load	At 24 VDC 800E		
Output range	adjustable to (M.R.)		
Output Mode	Selectable		
	pH output	Redox output	Free chlorine output
	Temperature		Temperature
	Regulator output	Regulator output	Regulator output

MEASURE DRAWINGS



Regulator connector (each electronic):	
Regulator	3 point or PI regulator
Outputs	3 x 24 VAC / 250 mA
Inputs	3 x 24 VAC
Mode	Selectable
	- Motor Control
	- Pump Control
<b>General data:</b>	
Ambient temperature	-10...+50°C
Relative humidity	10...95 % non-condensation
Control unit protection	IP 65
Dimensions	322 x 670 x 113
Weight	7,0 kg
Flow	Minimum 0,5 l/min
Water conductivity	> 50µS