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## poolCHEM-1



请使用翻译作用于这页底部以翻译页对汉语。

TPS Australia - Quality hand-made instruments since 1968.

*Nothing's as cool, as a freshwater pool™*

## poolCHEM-1 ORP and pH Controller for Pools and Spas

**The Plus Pack, which was previously optional, is standard from 2005.**



[Full size image](#)

*Automatic controller for ORP and pH in Swimming and Spa Pools.*

*The poolCHEM-1 has 1 inbuilt peristaltic pump, which can be set up to control ORP or pH. A 24V DC output is provided for controlling the other channel. This*

*For example...*

- ◆ *Control liquid Chlorine with the inbuilt pump and use the 24V DC output to control a Carbon Dioxide valve for pH Control.*
- ◆ *Control pH with acid using the inbuilt pump and use the 24V DC output to control a larger Chlorine dosing pump (external relay may be required).*

*Temperature readout is provided. Supplied with sensors, calibration standards and all accessories required for installation.*

*The new advanced design makes this unit far superior and yet easier to use than other brands. The poolCHEM-1 is the culmination of over 30 years manufacturing experience.*

- ◆ Waterproof construction rated to IP65.
- ◆ One 6L/Hr peristaltic pump built in.
- ◆ Supplied with 24V DC output
- ◆ Quick-dose function
- ◆ Temperature readout.
- ◆ Fully adjustable ON and OFF times can be set separately for

- control cable for low-powered devices or relay etc for second channel.
- ◆ Memory for 2300 stored readings, with automatic datalogging facility.
  - ◆ RS232 Interface for remote monitoring of system (cable is optional).
  - ◆ Pump sensor only allows automatic dosing when circulating pump is on.
  - ◆ Graphic display mode makes the data easy at a glance.
  - ◆ Automatic calibration
  - ◆ Configure with pool size for quick set-up
  - ◆ Operates off a single AC/DC power supply. No electrical installation required.
  - ◆ Supplied complete with Sensor / Injection pipe fitting.
- ◆ ORP and pH pumps, eliminating over-dosing.
  - ◆ User can select acid or alkali addition.
  - ◆ Password protection, so only qualified users can change set-up or calibration.
  - ◆ Good laboratory practices (GLP) function brings analytical Q.A. to swimming pools. Instant recall of current calibration and system set-up information.
  - ◆ 24 Hour calendar clock.
  - ◆ Emergency shutoff timer shuts off ORP and pH pumps if they operate continuously for user-set time.

## Specifications

### ORP

Range : 0 to 1000 mV  
 Resolution : 1 mV  
 Accuracy : +/-1 mV

### pH

Ranges : 2.0 to 12.0 pH  
 2.00 to 12.00 pH  
 (user selectable)  
 Resolutions: 0.1 pH  
 0.01 pH  
 Accuracy : +/-0.01pH

### Temperature

Range : -10.0 to 120.0 °C  
 Resolution : 0.1 °C  
 Accuracy : +/-0.2 °C

### Temperature Compensation

Automatic Temperature Compensation for pH. Uses temperature sensor built into ORP sensor

### Calibration

Automatic calibration for all parameters, with automatic standards recognition.

### Good Laboratory Practices

All calibration information and user-adjustable set-up information is stored in memory, and can be recalled on the display at any time. This information can also be printed or downloaded to a computer, when the optional RS232 cable is fitted.

The unit's serial number is stored in memory. This is displayed at turn-on, and included with GLP information.

### Plus-Pack

**(previously optional, but standard from 2005)**

The Plus Pack includes the following items...

- ◆ RS232 Serial Interface
- ◆ Datalogging capability
- ◆ 24 Hour Calendar Clock
- ◆ Selectable High or Low

### Datalogging

**Memory**  
 2300 readings, including date and time.

### Notepad

Records reading into memory at the touch of a button.

**Enclosure**

Tough ABS enclosure, fully waterproof to IP65.

**Display**

80 Character alphanumeric LCD with user-friendly menu system and full-text messages.

**Dimensions**

210 x 180 x 90 mm

**Mass**

Full Kit : Approx 3.0kg

**Environment**

Temperature : 0 to 45 °C

Humidity : 0 to 95% R.H.

**Peristaltic Pump**

- ◆ 1 x built-in 6 Litre/ Hour
- ◆ Chemical resistant Santoprene pump tubing

**Automatic Datalogging**

User selectable for one reading every...

1,2,5,10,15,20 or 30 minutes or every...

1,2,3,4,6,8,12 or 24 hours

**RS232 Serial Interface**

300, 9600 and 19200 Baud.

8 Bits, No Parity, 1 Stop Bit,

XON/XOFF Protocol

**Note : RS232 cable is optional.**

**Calendar Clock**

24 Hour Calendar Clock

## Ordering Information

Part No

poolCHEM-1 Controller.....111114

**Kit Includes**

pH Sensor, 2m.....111230  
 ORP/Temp Sensor. 2m.....111263  
 Inductive Pump Sensor.....130102  
 pH6.88 Buffer, 200mL.....121306  
 pH4.00 Buffer, 200mL.....121381  
 231mV ORP Standard.....121309  
 Sensor/Injection Tee.....117904  
 50 to 40mm Bushes x 2.....NPBR5040  
 24VDC Control Output Cable  
 Pump Suction Tube, 2m.....116358  
 Pump Output Tube, 2m.....116360  
 Drum Lid tube fitting.....116362  
 Tube weight for drum.....116354  
 AC/DC Power Adaptor.....Specify  
 Country  
 poolCHEM Handbook.....130050

**Spares**

Part No

Pump Tube assembly, 1.8L/Hr.116353  
 Pump Tube assembly, 6.1L/Hr.116352  
 Pump Tube Lubricant, 3mL....130103

**Instrument Options**

RS232 Interface Cable.....130041  
 Communication Software  
 for Windows.....130086  
 Alarm Siren (105dB).....130101

**No other items are required to install and operate the poolCHEM-1**



[Download this Specification Sheet in PDF format.](#)



[Download the full colour TPS Pool Products Brochure \(2.05 MB PDF\).](#)



[Download the handbook for this instrument.](#)

**Hint :** Right click on a link, then select "Save Target As..." or "Save Link As..." to save the file to your own computer.

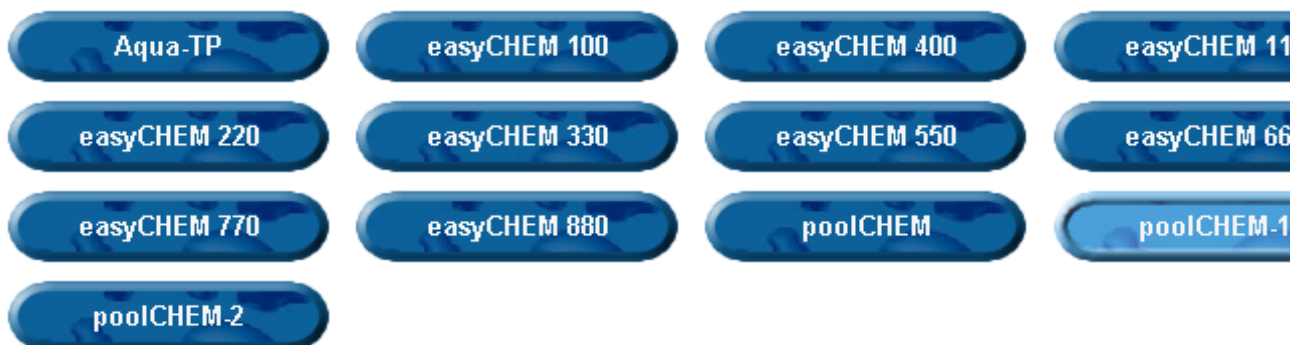
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*Version 2.0*

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