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## Aqua-DY



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.

### Aqua-DY Waterproof Dissolved Oxygen - Temperature Meter



[Full Size Image](#)

The Aqua-DY uses the rugged EDYSI Dissolved Oxygen sensor, which can be submersed to 60 metres

- ◆ *Dual readout of Dissolved Oxygen or Salinity and Temperature*
- ◆ *Waterproof to IP65*
- ◆ *Easy to use*
- ◆ *One-touch calibration*
- ◆ *Full-text prompting and error messages*
- ◆ *Large digit mode*
- ◆ *Fold-out stand for bench use*
- ◆ *Australian Made*

The **Aqua-DY** is a waterproof, easy-to-use, Dissolved Oxygen meter with ppM, % Saturation and Temperature readouts. It provides accurate, reliable measurements, and is very easy to use.

Genuine one-touch calibration puts an end to time-consuming calibration procedures.

### ***Rugged and Reliable***

TPS has used the latest microprocessor electronics to totally eliminate all internal and external adjustments. The result is a dramatic increase in reliability. The unit is ideal for field or factory use.

The Dissolved Oxygen sensor is designed for maximum durability in field and factory environments.

### ***24 Character Alphanumeric Display***

The two-line, 24 character display shows the Dissolved Oxygen reading plus temperature simultaneously.

Alternatively, a Large Digit mode is available. This shows one reading at a time at almost double the size. To simply use of the **Aqua-DY**, plain English prompts and error messages are provided. There are no codes to interpret like some other brands.

### ***One-touch Calibration***

Calibration of the **Aqua-DY** could not be simpler.

Just place the sensor into Zero solution or air and press the Calibrate key. That's all there is to it !

The **Aqua-DY** displays sensor condition after calibration has been completed, allowing for preventative maintenance.

All calibration information is stored in

### ***Salinity Correction***

Salinity correction for ppM Dissolved Oxygen readings is a breeze. Simply enter the Salinity value and the **Aqua-DY** does the rest !

### ***Low Battery Drain***

The **Aqua-DY** will provide in excess of 100 hours of continuous use with an alkaline 9 volt battery.

A handy battery-saver function switches the **Aqua-DY** off after 5 minutes if no keys have been pressed. This function can also be disabled for continuous operation.

### ***Temperature Compensation***

Correct temperature compensation is vital for accurate Dissolved Oxygen measurements. The **Aqua-DY** compensates for membrane permeability for all readings and also for Dissolved Oxygen solubility in ppM mode.

### ***Australian Quality***

The Aqua Series is proudly designed and manufactured in Australia. Our aim is to provide you with the best quality, service and value for money. The TPS Quality System has been certified in accordance with the AS/NZS ISO 9001 standard. Since 1968, TPS has built a reputation for excellent backup service that is second to none.

memory when the **Aqua-DY** is switched off, even if the battery is removed.

## Specifications

### **ppM (mg/L)**

Range : 0 to 25.0 ppM  
Resolution : 0.1 ppM  
Accuracy : +/-0.1 ppM

### **% Saturation**

Range : 0 to 250.0 %Sat'n  
Resolution : 0.1 %Sat'n  
Accuracy : +/-0.3 %Sat'n

### **Temperature**

Range : -10.0 to 120.0 °C  
(sensor limit 45 °C)  
Resolution : 0.1 °C  
Accuracy : +/-0.2 °C

### **Salinity Correction**

User-set, from 0 to 50.0 ppK NaCl

### **Sensor Type**

Clark type polarographic sensor with inbuilt ATC

### **Calibration**

Automatic one-touch calibration in Zero solution and in Air

### **Sensor Zero Range**

0 to 7 %

### **Sensor Span Range**

70 to 135 %

### **Temperature Calibration**

Automatic calibration against reference thermometer

### **Temp Sensor Offset Range**

-10.0 to +10.0 °C

### **Temperature Compensation**

Dual automatic system for :

1. Membrane permeability
2. Solubility compensation in ppM mode

### **Enclosure**

Tough, ABS plastic case, waterproof to IP65

### **Display**

24 Character alphanumeric LCD with full-text prompts and error messages.

### **Battery Saver Function**

On : Automatically switches off after 5 minutes of no use.

Off : Unit remains on for continuous use.

### **Power**

9V Alkaline battery for 100+ hours.

### **Dimensions**

157 x 78 x 35 mm

### **Mass**

Instrument only : Approx 250g  
Full Kit : Approx 1.5kg

### **Environment**

Temperature : 0 to 45 °C  
Humidity : 0 to 90% R.H.

## Ordering Information

Part No	Part No
Aqua-DY DO2-Temp 1m.....123144/1	<b>Options and Accessories</b>
Aqua-DY DO2-Temp 3m.....123144/3	
Aqua-DY DO2-Temp 5m.....123144/5	
<b>1, 3 &amp; 5 metre Options Include</b>	<b>Dissolved Oxygen Sensor Field Stirrer:</b>
<b>1 metre bundle 123144/1:</b>	YSI 5739 DO2 Sensor Stirrer....123306 (Separate battery source required)
DO2 Sensor YSI5739 (no cable).123204	<b>BOD Dissolved Oxygen Sensors:</b>
1m cable for Sensor (YSI5739).123212	YSI non-stirring BOD Sensor....123214 (1.5m cable)
Membrane & filling sol'n kit..123300	YSI self-stirring BOD Sensor...123213 (1.5m cable) (Mains power required)
9V Alkaline Battery .....130026	<b>Dissolved Oxygen Sensor Maintenance:</b>
Manual.....130050	<u>YSI5739 Field Sensor &amp; Non Stir BOD</u>
<b>3 metre bundle 123144/3:</b>	Membrane & filling sol'n kit...123300
DO2 Sensor YSI5739 (no cable).123204	Filling Solution only, 45mL....123303
3m cable for Sensor (YSI5739).123221	Zero calibrate Sodium Sulphite.123302
Membrane & filling sol'n kit..123300	Rejuvenation kit.....123037
9V Alkaline Battery .....130026	Diaphragm replacement kit.....123304 (123304 for YSI5739 Sensor Only)
Manual.....130050	<u>YSI Self-Stirring BOD Sensor</u>
<b>5 metre bundle 123144/5:</b>	Membrane Cap Kit.....123308
DO2 Sensor YSI5739 (no cable).123204	<b>Cable Extension:</b>
5m cable for Sensor (YSI5739).123222	Extra cable, per metre.....130040
Membrane & filling sol'n kit..123300	<b>Carry case:</b>
9V Alkaline Battery .....130026	Aluminium Carry Case.....130057
Manual.....130050	



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



[Download the full colour Aqua Series Brochure \(1.77 MB PDF\).](#)



[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.

## Aqua-DY

If you do not have Adobe Acrobat in your computer, a free Acrobat Reader can be downloaded by clicking on the following link.



*TPS reserves the right to change any part of this specification without notice.*

*Version 1.0*

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**Aqua-DO2**

**Aqua-DY**

**WP-82**

**WP-82Y**

**90-D**

**smartCHEM-DO2**

**microCHEM-DO2**

**miniCHEM-DO2**

**proCHEM-D**

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