



Quality. Service. Value.

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TPS Australia - Quality instruments since 1968.

WP-91 Waterproof Dissolved Oxygen- pH-mV- Temperature Meter



[Full Size Image](#)

- ◆ **Rugged and Waterproof**
- ◆ **User-friendly**
- ◆ **Altitude, Pressure and Salinity Correction**
- ◆ **Calendar Clock**
- ◆ **Good Laboratory Practices**
- ◆ **2400 Reading Notepad**
- ◆ **Automatic Datalogging**
- ◆ **RS232 Serial Port Interface**
- ◆ **Multiple Power Options**
- ◆ **Australian Made**

The WP series enclosure is fully waterproof to IP67 rating. The connectors are rated to IP65. The case, keypad and connectors are designed

Program the AutoLog function to automatically log readings into memory

for maximum durability in the harshest conditions. The WP Series is equally at home in laboratory, field or industrial environments.

The 32 character alphanumeric display features a user-friendly menu system. This guides the user through every step of operation. Full text prompting and error messages are provided. Calibration and set-up are a breeze with the WP Series.

The Calendar Clock can be displayed continuously along with the data. The date and time are recorded with every reading, when using the Notepad and AutoLog functions.

To comply with Good Laboratory Practices (GLP) standards, the WP Series store the date, time and results of the last calibration. This information can be recalled when required. All readings stored in memory are stamped with the date and time.

To reduce errors when recording readings, the WP Series has a 2400 reading Notepad. At the touch of a button, readings can be recorded into memory, along with the date and time. This is especially useful when taking readings in wet environments.

Automatically log readings into memory. Simply set the logging interval from 1 minute to 24 hours, start logging and walk away. The WP Series can log up to 2400 readings, along with the date and time.

The WP Series has RS232 serial port interface. All readings stored in memory and GLP information can be downloaded to a PC or printer. The RS232 serial port also allows the AutoLog function to log directly to a PC or printer. WinTPS Windows software allows the WP Series to communicate with a PC for data download.

The WP Series is supplied with a rechargeable NiMH battery and charger as standard. Chargers for all countries are available. For extended field trips a solar panel, or a charger lead for a car cigarette lighter socket are also available.

The WP 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. Compare the list of features with the competition. The WP Series sets a new standard for handheld instruments.

Specifications

ppM (mg/L)

Ranges* : 0.0 to 20.00 ppM
and 20.0 to 40.0 ppM
Resolution : 0.01 & 0.1 ppM
Accuracy : +/-0.2% of full
scale of selected
range

% Saturation

Ranges* : 0 to 240.0 %Sat In

Enclosure

Tough, anti-static Luran-S plastic case, waterproof to IP67. Connectors waterproof to IP65. The instrument will float if dropped into water.

Display

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

Ranges : 0 to 240.0 %Sat'n
and 240 to 450 %Sat'n
Resolution : 0.1 & 1 %Sat'n
Accuracy : +/-0.3 %Sat'n

% Gaseous

Ranges* : 0 to 45.0 %Gas
and 45 to 100 %Gas
Resolution : 0.1 & 1 %Gas
Accuracy : +/-0.1 %Gas

*Automatic range selection, subject to sensor performance.

pH

Range : 0 to 14.00 pH
Resolution : 0.01 pH
Accuracy : +/-0.01pH

mV

Range : 0 to +/-500.0 &
0 to +/-1500 mV
(auto-ranging)
Resolution : 0.15 and 1 mV
Accuracy : +/-0.3 & +/-1 mV

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

Barometric Pressure Correction

User-set, from 800 to 1100 hPa

Altitude Correction

User-set, from 0 to 5000m

pH Asymmetry Range

-1.00 to +1.00 pH

pH Slope Range

70.0 to 110.0 %

Automatic Buffer Recognition

4.01, 6.86, 7.00, 9.18 & 10.01

Temperature Compensation

0 to 100 °C, automatic or manual

Memory

2400 readings, including date and time.

Automatic Logging

User-set for one reading every 1 to 90 seconds, 1 to 90 minutes or 1 to 24 hours.

RS232 Serial Port Output

300, 1200 and 9600 Baud.
8 Bits, No Parity, 1 Stop Bit, XON/XOFF

Clock

24 Hour Calendar Clock

Battery Saver Function

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

Off : Unit remains on for continuous use.

Good Laboratory Practices

Date, time and results of last successful calibration are stored, and can be recalled when required. GLP information can be printed or downloaded to PC when the optional RS232 Interface is fitted. Warning of failed calibration is provided.

Power

6V NiMH Rechargeable battery pack for approx 75 hours operation. Battery charger for country of choice supplied. Battery can be charged from any 12V DC source.

Dimensions

187 x 110 x 51 mm

Mass

Instrument only : Approx 440g
Full Kit : Approx 1.7kg

Environment

Temperature : 0 to 45 °C
Humidity : 0 to 95% R.H.

Ordering Information

Part No	Part No
WP-91 pH/mV-DO2-Temp 1m.....123150/1	Options and Accessories
WP-91 pH/mV-DO2-Temp 3m.....123150/3	
WP-91 pH/mV-DO2-Temp 5m.....123150/5	
1, 3 & 5 metre Options Include	
1 metre bundle 123150/1:	
pH Sensor, 1m Surface only.....121207	pH Sensor Upgrade: difficult samples such as meat, dairy, slurries...
DO2 Sensor YSI5739 (no cable)...123204	pH, Intermediate Junc, 1m....121200/1
1m cable for Sensor (YSI5739)...123212	pH, Intermediate Junc, 3m....121200/3
Membrane & filling sol'n kit....123300	pH, Intermediate Junc, 5m....121200/5
pH7.00 Buffer, 200mL.....121387	ORP Sensors:
pH4.01 Buffer, 200mL.....121381	ORP, Surface only, 1m.....121262
Battery Charger.....130037	ORP, Intermediate Junc, 1m....121269
Manual.....130050	ORP Calibration Solution.....121309
3 metre bundle 123150/3:	
pH Sensor, 3m Submersible.....111231	Dissolved Oxygen Sensor Field Stirrer:
DO2 Sensor YSI5739 (no cable)...123204	YSI 5739 DO2 Sensor Stirrer....123306
3m cable for Sensor (YSI5739)...123221	(Separate battery source required)
Membrane & filling sol'n kit....123300	BOD Dissolved Oxygen Sensors
pH7.00 Buffer, 200mL.....121387	YSI non-stirring BOD Sensor....123214
pH4.01 Buffer, 200mL.....121381	(1.5m cable)
Battery Charger.....130037	YSI self-stirring BOD Sensor...123213
Manual.....130050	(1.5m cable) (Mains power required)
5 metre bundle 123150/5:	
pH Sensor, 5m Submersible.....111224	Dissolved Oxygen Sensor Maintenance:
DO2 Sensor YSI5739 (no cable)...123204	<u>YSI5739 Field Sensor & Non Stir BOD</u>
5m cable for Sensor (YSI5739)...123222	Membrane & filling sol'n kit...123300
Membrane & filling sol'n kit....123300	Filling Solution only, 45mL....123303
pH7.00 Buffer, 200mL.....121387	Zero calibrate Sodium Sulphite.123302
pH4.01 Buffer, 200mL.....121381	Rejuvenation kit.....123037
Battery Charger.....130037	Diaphragm replacement kit.....123304
Manual.....130050	(123304 for YSI5739 Sensor Only)
Please click the following links for further details on the TPS range of sensors...	
pH Sensors	<u>YSI Self-Stirring BOD Sensor</u>
Redox (ORP) Sensors	Membrane Cap Kit.....123308
	Cable Extension:
	Extra cable, per metre.....130040
	Computer Interface:
	Serial cable for computer.....130041
	Serial to USB adaptor cable....130087
	WinTPS Software for Windows....130086
	Power options:
	12V Solar Panel.....130012
	12V Car Cigarette lighter lead.130046
	12V Clip lead, separate battery.130052
	Carry case:
	Aluminium Carry Case.....130059

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 [Download the full colour WP Series Brochure \(1.65 MB PDF\).](#)



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

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Version 2.0

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