



Quality. Service. Value.

[Add this page to the Navigation view to display hyperlinks here]

[Add this page to the navigation structure to display a page banner here]



请使用翻译作用于这页底部以翻译页对汉语。

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'n

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-D02-Temp 1m.....123150/1	Options and Accessories
WP-91 pH/mV-D02-Temp 3m.....123150/3	pH Sensor Upgrade: difficult samples such as meat, dairy, slurries...
WP-91 pH/mV-D02-Temp 5m.....123150/5	pH, Intermediate Junc, 1m....121200/1
	pH, Intermediate Junc, 3m....121200/3
	pH, Intermediate Junc, 5m....121200/5
1, 3 & 5 metre Options Include	ORP Sensors:
1 metre bundle 123150/1:	ORP, Surface only, 1m.....121262
pH Sensor, 1m Surface only.....121207	ORP, Intermediate Junc, 1m....121269
D02 Sensor YSI5739 (no cable)...123204	ORP Calibration Solution.....121309
1m cable for Sensor (YSI5739)...123212	Dissolved Oxygen Sensor Field Stirrer:
Membrane & filling sol'n kit....123300	YSI 5739 D02 Sensor Stirrer....123306
pH7.00 Buffer, 200mL.....121387	(Separate battery source required)
pH4.01 Buffer, 200mL.....121381	BOD Dissolved Oxygen Sensors
Battery Charger.....130037	YSI non-stirring BOD Sensor....123214
Manual.....130050	(1.5m cable)
3 metre bundle 123150/3:	YSI self-stirring BOD Sensor...123213
pH Sensor, 3m Submersible.....111231	(1.5m cable) (Mains power required)
D02 Sensor YSI5739 (no cable)...123204	Dissolved Oxygen Sensor Maintenance:
3m cable for Sensor (YSI5739)...123221	<u>YSI5739 Field Sensor & Non Stir BOD</u>
Membrane & filling sol'n kit....123300	Membrane & filling sol'n kit...123300
pH7.00 Buffer, 200mL.....121387	Filling Solution only, 45mL....123303
pH4.01 Buffer, 200mL.....121381	Zero calibrate Sodium Sulphite.123302
Battery Charger.....130037	Rejuvenation kit.....123037
Manual.....130050	Diaphragm replacement kit.....123304
5 metre bundle 123150/5:	(123304 for YSI5739 Sensor Only)
pH Sensor, 5m Submersible.....111224	<u>YSI Self-Stirring BOD Sensor</u>
D02 Sensor YSI5739 (no cable)...123204	Membrane Cap Kit.....123308
5m cable for Sensor (YSI5739)...123222	Cable Extension:
Membrane & filling sol'n kit....123300	Extra cable, per metre.....130040
pH7.00 Buffer, 200mL.....121387	Computer Interface:
pH4.01 Buffer, 200mL.....121381	Serial cable for computer.....130041
Battery Charger.....130037	Serial to USB adaptor cable....130087
Manual.....130050	WinTPS Software for Windows....130086
Please click the following links for further details on the TPS range of sensors...	Power options:
pH Sensors	12V Solar Panel.....130012
Redox (ORP) Sensors	12V Car Cigarette lighter lead.130046
	12V Clip lead, separate battery.130052
	Carry case:
	Aluminium Carry Case.....130059



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



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



[Download the manual 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.

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 2.0

Copyright © 2000, 2002 TPS Pty Ltd

[Add this page to the Navigation view to display hyperlinks here]

Web Author : TPS Pty Ltd

Copyright © 2002-2010 T.P.S. Pty Ltd

A.B.N. 30 009 773 371

Last modified: January 24, 2011