



Quality. Service. Value.

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TPS Australia - Quality instruments since 1968.

WP-81 Waterproof Conductivity/TDS-pH/mV- Temperature Meter



[Full Size Image](#)

- ◆ *Rugged and Waterproof*
- ◆ *User-friendly*
- ◆ *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 for maximum durability in the harshest conditions. The WP Series is equally at home in laboratory, field or industrial

Program the AutoLog function to automatically log readings into memory. Simply set the logging interval from 1 minute to 24 hours, start logging and

rooms in laboratory, home 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.

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

Conductivity

Ranges : 4 ranges with auto range selection

k=0.1 Sensor : 0 to 2.000 uS/cm
 0 to 20.00 uS/cm
 0 to 200.0 uS/cm
 0 to 2000 uS/cm
 k=1 Sensor : 0 to 20.00 uS/cm
 0 to 200.0 uS/cm
 0 to 2000 uS/cm
 0 to 20.00 mS/cm
 k=10 Sensor : 0 to 200.0 uS/cm
 0 to 2000 uS/cm
 0 to 20.00 mS/cm
 0 to 200.0 mS/cm

Temperature Compensation

Automatic, 0 to 100 °C.

Automatic Buffer Recognition

4.00, 6.88, 7.00, 9.23 and 10.06 pH

Enclosure

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

Resolution : 0.05% of range
 Accuracy : 0.2% of full scale of
 selected range

TDS

Ranges : 4 ranges with auto range
 selection.

k=0.1 Sensor : 0 to 1.000 ppM
 0 to 10.00 ppM
 0 to 100.0 ppM
 0 to 1000 ppM

k=1 Sensor : 0 to 10.00 ppM
 0 to 100.0 ppM
 0 to 1000 ppM

k=10 Sensor : 0 to 10.00 ppK
 0 to 100.0 ppM
 0 to 1000 ppM
 0 to 10.00 ppK
 0 to 100.0 ppK

Resolution : 0.1% of range
 Accuracy : 0.5% of full scale of
 selected range

pH

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

mV

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

Temperature

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

Conductivity/TDS Span Range

75% to 133% of nominal k factor

pH Input Impedance

>3 x 10¹² Ohms

pH Asymmetry Range

-1.00 to +1.00 pH

pH Slope Range

85.0 to 105.0%

Display

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

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 2.5kg

Environment

Temperature : 0 to 45 °C

Humidity : 0 to 95% R.H.

Ordering Information

Part No	Part No
WP-81 Cond/TDS-pH/mV-Temp 1m..121132/1	Options and Accessories
WP-81 Cond/TDS-pH/mV-Temp 3m..121132/3	
WP-81 Cond/TDS-pH/mV-Temp 5m..121132/5	
1, 3 & 5 metre Options Include	
1 metre bundle 121132/1:	pH Sensor Upgrade: difficult samples such as meat, dairy, slurries...
pH Sensor, 1m Surface only.....121207	pH, Intermediate Junc, 1m....121200/1
k=1.0 Cond-ATC-Temp 1m, plastic.122201	pH, Intermediate Junc, 3m....121200/3
pH6.88 Buffer, 200mL.....121306	pH, Intermediate Junc, 5m....121200/5
pH4.00 Buffer, 200mL.....121381	
2.76 mS/cm Cond Standard, 200mL.122306	ORP Sensors:
2.0 ppK TDS Standard, 200mL....122307	ORP, Surface only, 1m.....121262
Battery Charger.....130037	ORP, Intermediate Junc, 1m....121267
Manual.....130050	ORP Calibration Solution.....121309
	Cable Extension:
3 metre bundle 121132/3:	Extra cable, per metre.....130040
pH Sensor, 3m Submersible.....111231	Computer Interface:
k=1.0 Cond-ATC-Temp 3m, plastic.122236	Serial cable for computer.....130041
pH6.88 Buffer, 200mL.....121306	Serial to USB adaptor cable....130087
pH4.00 Buffer, 200mL.....121381	WinTPS Software for Windows....130086
2.76 mS/cm Cond Standard, 200mL.122306	
2.0 ppK TDS Standard, 200mL....122307	Power options:
Battery Charger.....130037	12V Solar Panel.....130012
Manual.....130050	12V Car Cigarette lighter lead.130046
	12V Clip lead, separate battery.130052
5 metre bundle 121132/5:	Carry case:
pH Sensor, 5m Submersible.....111224	Aluminium Carry Case.....130059
k=1.0 Cond-ATC-Temp 5m, plastic.122198	
pH6.88 Buffer, 200mL.....121306	Same Price Interchange Option:
pH4.00 Buffer, 200mL.....121381	Choose between k=0.1, k=1 and k=10
2.76 mS/cm Cond Standard, 200mL.122306	Range Conductivity Sensors
2.0 ppK TDS Standard, 200mL....122307	
Battery Charger.....130037	
Manual.....130050	
Please click the following links for further details on the TPS range of sensors...	1 metre Plastic (for 1 metre bundle 121132/1)
	k=10 Cond/ATC/Temp 1m, plastic.122221
	k=0.1 Cond/ATC/Temp 1m, plastic.122235
pH Sensors	3 metre Plastic (for 3 metre bundle 121132/3)
	k=10 Cond/ATC/Temp 3m, plastic.122237
	k=0.1 Cond/ATC/Temp 3m, plastic.122238
Redox (ORP) Sensors	5 metre Plastic (for 5 metre bundle 121132/5)
	k=10 Cond/ATC/Temp 5m, plastic.122219
	k=0.1 Cond/ATC/Temp 5m, plastic.122199
	1 metre Glass (for 1 metre bundle 121132/1)
	k=1 Cond/ATC/Temp 1m, glass...122216
	k=1 Cond/ATC/Temp Low Volume .122214
	k=10 Cond/ATC/Temp 1m, glass...122212
	k=0.1 Cond/ATC/Temp 1m, glass...122229



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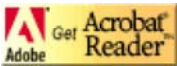
[Download the full colour WP Series Brochure \(1.65 MB PDF\).](#)



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

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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

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