TPS 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

environments.	walk away. The WP Series can log up to 2400 readings, along with the date and time.	
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 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.	
The Calendar Clock can be displayed continuously along with the data. The date and time are recorded with every	WinTPS Windows software allows the WF Series to communicate with a PC for data download.	
reading, when using the Notepad and AutoLog functions.	The WP Series is supplied with a rechargeable NiMH battery and charger	
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	as standard. Chargers for all countries are available. For extended field trips of solar panel, or a charger lead for a ca cigarette lighter socket are also available.	
stored in memory are stamped with the date and time.	The WP Series is proudly designed and manufactured in Australia. Our aim is to	
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	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	

button, readings can be recorded into memory, along with the date and time. This is especially useful when taking readings in wet environments.

Specifications

Conductivity

Ranges :	4	4 ranges		with	auto	range	
	S	selection			ı		
k=0.1 Sensor	:	()	to	2.000	uS/c	zm
		()	to	20.00	uS/c	zm
		()	to	200.0	uS/c	zm
		()	to	2000	uS/c	zm
k=1 Sensor	:	()	to	20.00	uS/o	cm
		()	to	200.0	uS/c	zm
		()	to	2000	uS/o	cm
		()	to	20.00	mS/c	zm
k=10 Sensor	:	()	to	200.0	uS/c	cm
		()	to	2000	uS/o	cm
		()	to	20.00	mS/c	zm
		()	to	200.0	mS/c	cm

Temperature Compensation

Automatic, 0 to 100 ^oC.

Automatic Buffer Recognition

4.00, 6.88, 7.00, 9.23 and 10.06 pH

standard for handheld instruments.

Enclosure

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

Display

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

TDS

100							
Ranges :	4	rang	ges	with a	uto	range	
	se	selection.					
k=0.1 Sensor	:	0	to	1.000	ррМ		
		0	to	10.00	ррМ		
		0	to	100.0	ррМ		
		0	to	1000	ррМ		
k=1 Sensor	:	0	to	10.00	ррМ		
		0	to	100.0	ррМ		
		0	to	1000	ррМ		
				10.00			
k=10 Sensor	:			100.0			
				1000			
				10.00			
		0	to	100.0	ррК		
Resolution :	0	.1% (of 1	range			
Accuracy :	0	.5% (of f	full sc	ale	of	

Accuracy 0.58 iull scale of selected range

pН

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

mV

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

Temperature

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

Conductivity/TDS Span Range 75% to 133% of nominal k factor

pH Input Impedance

 $>3 \times 10^{12}$ Ohms

pH Asymmetry Range

-1.00 to +1.00 pH

pH Slope Range 85.0 to 105.0%

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 ^oC Humidity : 0 to 95% R.H.

Part No

Ordering Information

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 pH Sensor Upgrade: difficult samples such as meat, dairy, slurries... 1, 3 & 5 metre Options Include pH, Intermediate Junc, 1m....121200/1 pH, Intermediate Junc, 3m....121200/3 pH, Intermediate Junc, 5m....121200/5 1 metre bundle 121132/1: pH Sensor, 1m Surface only.....121207 k=1.0 Cond-ATC-Temp 1m, plastic.122201 **ORP Sensors:** pH6.88 Buffer, 200mL......121306 ORP, Surface only, 1m.....121262 pH4.00 Buffer, 200mL.....121381 ORP, Intermediate Junc, 1m....121267 2.76 mS/cm Cond Standard, 200mL.122306 ORP Calibration Solution.....121309 2.0 ppK TDS Standard, 200mL....122307 Battery Charger.....130037 Cable Extension: Manual.....130050 Extra cable, per metre.....130040 3 metre bundle 121132/3: **Computer Interface:** pH Sensor, 3m Submersible.....111231 Serial cable for computer.....130041 k=1.0 Cond-ATC-Temp 3m, plastic.122236 Serial to USB adaptor cable....130087 WinTPS Software for Windows....130086 2.0 ppK TDS Standard, 200mL....122307 Power options: Manual.....l30050 12V Car Cigarette lighter lead.130046 12V Clip lead, separate battery. 130052 5 metre bundle 121132/5: pH Sensor, 5m Submersible.....111224 Carry case: k=1.0 Cond-ATC-Temp 5m, plastic.122198 pH6.88 Buffer, 200mL.....121306 Same Price Interchange Option: 2.76 mS/cm Cond Standard, 200mL.122306 Choose between k=0.1, k=1 and k=10 2.0 ppK TDS Standard, 200mL....122307 Battery Charger.....130037 Range Conductivity Sensors Manual.....130050 (for 1 metre bundle 121132/1) 1 metre Plastic Please click the following links for k=10 Cond/ATC/Temp 1m,plastic.122221 further details on the TPS range of k=0.1 Cond/ATC/Temp 1m,plastic.122235 sensors... 3 metre Plastic (for 3 metre bundle 121132/3) k=10 Cond/ATC/Temp 3m,plastic.122237 pH Sensors 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) Cond/ATC/Temp 1m,glass...122216 k=1 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



PDF

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