TPS Quality. Service. Value.

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TPS Australia - Quality instruments since 1968.

WP-90 Waterproof Specific Ion - pH-mV-Temperature Meter

Full Size Image

The WP-90 provides temperature compensated Specific Ion readout for any monovalent or divalent Ion Selective Electrode, in user-selectable units of ppM, ppK, % or Exponential Notation.

◆ ***Fully programmable for any Specific Ion, pH or mV***

◆ ***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

Program the AutoLog function to automatically log readings into memory.

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.

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

Specific Ions

```
Ranges      : ppM, ppK, % & Exponential
              Notation, with auto
              ranging
Resolution : 3 significant
              digits
Accuracy    : +/-least
              significant digit
```

pH

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

Memory
```
2400 readings, including date andtime.
```

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
```

mV
```
Range       : 0 to +/-500.0 &
              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
```

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

Asymmetry Range
-1.00 to +1.00 pH

Slope Range
85.0 to 105.0%

Temperature Compensation
0 to 100 °C, automatic or manual. The WP-80 automatically detects whether or not the temperature sensor is connected.

Automatic Buffer Recognition
4.00, 6.86, 7.00, 9.18 and 10.01 pH

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.

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 : Approx 440g
Full Kit   : Approx 1.7kg
```

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

Ordering Information

```
                                 Part No
WP-90 Ion/pH/mV-Temp.............121191
```

Kit Includes
(Ion sensors sold separately.)
```
Temperature/ATC Sensor..........121247
Battery Charger.................130037
Manual..........................130050
```

Optional Sensors
Click the following links for details on the TPS

```
                                 Part No
```
Options and Accessories

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
```

range of sensors...

Specific Ion and Reference sensors

pH Sensors

Redox (ORP) Sensors

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 (832KB 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.

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