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90-D



请使用翻译作用于这页底部以翻译页对汉语。

TPS Australia - Quality hand-made instruments since 1968.

90-D Portable Dissolved Oxygen and Temperature Logger



(90-FL shown. 90-D is almost identical)

[Full Size Image](#)

- ◆ *Fully waterproof enclosure*
- ◆ *80 character display with user-friendly menu's and full-text messages.*
- ◆ *Wide range of measurements*
- ◆ *Sensor is submersible to 60m.*
- ◆ *Automatic calibration*
- ◆ *Automatic datalogging and Computer interfacing available*

The TPS **90-D** is a complete Dissolved Oxygen and Temperature logger.

User-friendly

Datalogging

Automatic datalogging provides the capability to automatically record up to 9340 sets of readings at user-set intervals.

The 80 character display shows Dissolved Oxygen, Temperature, Date and Time simultaneously. The user-friendly menu system guides the operator through all operations such as calibration, setup etc. Full text help and error messages are provided along the way.

Waterproof

The **90-D** is designed for rugged field applications in wet environments. The case, keypad and connectors are rated to IP65.

Good Laboratory Practices

To comply with GLP guidelines, the date, time and results of the last calibration are stored in memory, along with the unit's serial number. This data can be displayed or sent directly to the RS232 port. Warning of failed calibration is provided. All readings stored in memory are stamped with the date and time.

Notepad Function

A standard feature of the 90-D is the Notepad function. Up to 9340 readings can be recorded for later review. These can be downloaded to a printer or computer via the RS232 port. For added functionality, the user is able to enter up to two additional items to be tagged on to the reading. Many operators use this function as a site identifier, depth or readings from other instruments.

The unit remains dormant between readings and only wakes up whenever a reading is due. Battery life is considerably improved with this facility.

RS232 Serial Port Interface

All recorded data can be sent directly to a Printer or PC with the standard RS232 port (cable sold separately). The optional WinTPS software allows many of the instrument's functions to be controlled from a PC, making the units ideal for remote monitoring.

The 90 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.

Specifications

Dissolved Oxygen

Ranges : 0 to 30.00 ppM (mg/L)
 0 to 300.0 %Saturation
 Resolution : 0.01 ppM (mg/L)
 0.1 %Saturation
 Accuracy : ±0.02 ppM (mg/L)
 ±0.2 %Saturation
 Temperature
 Compensation : Automatic for
 solubility (ppM only)
 and membrane
 permeability.
 Zero
 Calibration : Automatic at less
 than 5%.
 Span
 Calibration : Automatic in air.

Temperature

Range : -30.0 to 110.0 °C
 (sensor limit 45 °C)
 Resolution : 0.1 °C
 Accuracy : +/-0.2 °C
 Calibration : Automatic, 1 or 2
 point

Salinity Correction

Manual salinity correction,
 0 to 50.00 ppK

Good Laboratory Practices

Date, Time and Value of last
 calibration for each parameter are
 stored. This information can be
 recalled or sent to the RS232 port at
 any time.

Warning of failed calibration is
 provided.

All readings stored in memory are
 stamped with the date and time.

Datalogging**Memory Capacity**

9340 readings (7230 with extra data
 input active).

Extra Data Input

2 extra items of data can be input when
 using the Notepad function.

Each item can be a maximum of 4
 characters, including a decimal point.

Extra Data items are labelled A and B.

Automatic Datalogging

The 90-D can be programmed to...
 Automatically log from 1 to 288
 readings per day.

Automatically log at up to 12 specific
 times of the day.

Automatically log readings at a preset
 interval for a preset duration.

RS232 Serial Port Output

8 Bits, No Parity, 1 Stop Bit,
 XON/OFF Protocol.
 300, 9600, 19200 baud available.

Display

2 line x 40 Character alphanumeric LCD
 shows all readings simultaneously.

Keypad

5 Function keys, Menu key, 14 data
 entry keys, OFF, ON.

Dimensions

230 x 140 x 100 mm

Mass

Meter only : Approx 1.5 kg
 Full Kit : Approx 5.0 kg

Environment

Temperature : 0 to 45 °C
 Humidity : 0 to 90% R.H.

Power

7.2V Rechargeable NiCad Battery.
 Any 12VDC supply will recharge the
 battery.

Ordering Information

Part No

5 metre bundle 123145/5:

90-D including cable and sensor.....121145/5

5 metre Option Includes

YSI 5739 Dissolved Oxygen Sensor (no cable)....123204

5m cable for sensor.....123219

Membrane & filling solution kit for sensor.....123300

Battery Charger.....130009

Manual.....130050

Options and Accessories

Dissolved Oxygen Stirrer:

YSI 5739 Dissolved Oxygen Sensor Stirrer.....123306

BOD Sensors:

YSI non-stirring BOD Sensor (1.5m cable).....123214

YSI self-stirring BOD Sensor (1.5m cable).....123213

Dissolved Oxygen Sensor Maintenance:

YSI5739 Field Sensor & Non Stirring BOD Sensor

Membrane & filling solution kit.....123300

Filling Solution only, 45mL.....123303

Zero calibration Sodium Sulphite.....123302

Rejuvenation kit.....123037

Diaphragm replacement kit.....123304

(Above for YSI5739 Field Sensor Only)

YSI Self-Stirring BOD Sensor

Membrane Cap Kit.....123308

Cable Extension:

Extra cable, per metre.....130040

Computer Interface:

RS232 serial port cable to connect to computer.130015

Serial to USB adaptor cable.....130087

WinTPS Software for Windows.....130086

Power options:

12V Solar Panel.....130012

12V Car Cigarette lighter lead.....130013

12V Clip lead, separate battery.....130024

Carry case:

Waterproof carry case.....130058



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



[Download the full colour 90 Series Brochure \(1.45 MB PDF\).](#)



[Download the handbook 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 6.1

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Aqua-DO2

Aqua-DY

WP-82

WP-82Y

90-D

smartCHEM-DO2

microCHEM-DO2

miniCHEM-DO2

proCHEM-D

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