



Aqua Series

Waterproof Portables

*pH
Redox*

*Conductivity
TDS*



*Dissolved
Oxygen*

Temperature

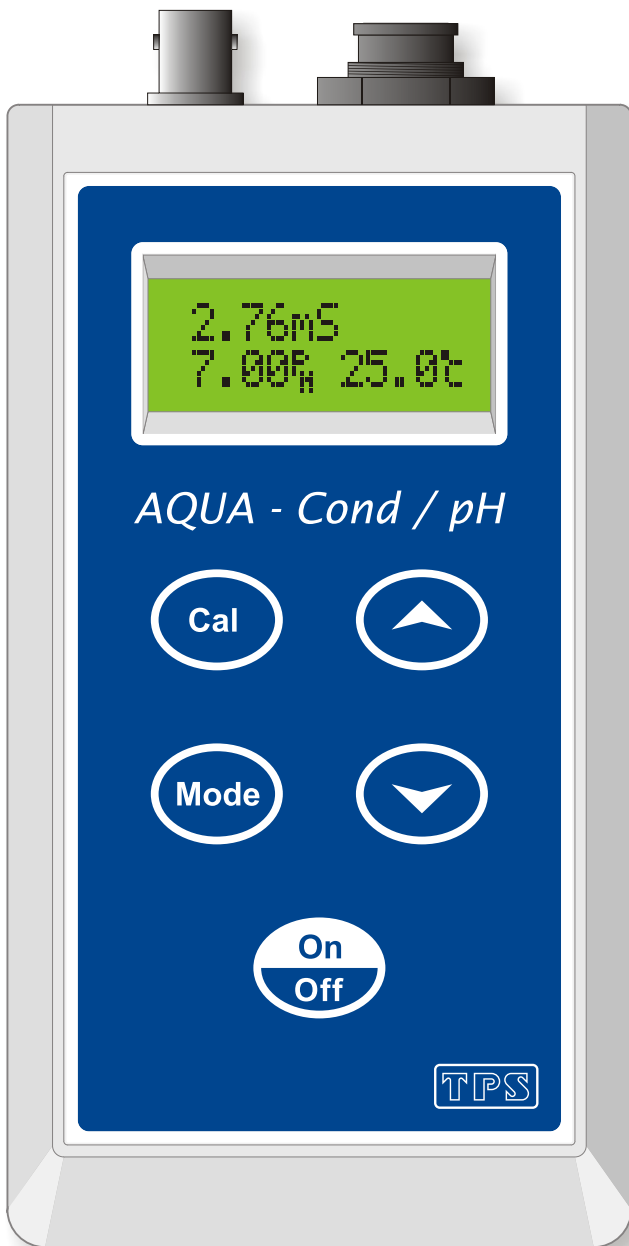


www.tps.com.au

Rugged and Waterproof

The Aqua Series enclosure is waterproof to IP65, and will float if dropped into water. A sturdy carry case is available for field use.

TPS uses the latest microprocessor electronics to totally eliminate moving parts in the Aqua Series. There are no internal or external adjustments, resulting in excellent long term reliability.



Aqua-CP model shown at full size.

User-friendly

The Aqua series use an alphanumeric display. This allows the units to provide plain English prompts and error messages. There are no obscure codes to interpret like some other brands.

The simple keypad uses just four keys to perform all calibration and set-up functions. This makes operation of the Aqua series absolutely simple.

One-Touch Calibration

Calibration of the Aqua Series could not be easier. Just place the relevant sensor into the standard solution supplied and press the Calibrate key. That's all there is to it!

Sensor condition is displayed after calibration has been completed, allowing for preventative maintenance. This information can be recalled on the display at any time.

All calibration information is stored in memory when the Aqua Series is switched off, even if the battery is removed.

Battery Saver Function

The Aqua Series are supplied with a 9V Alkaline battery, which provides up to 100 hours of continuous use, depending on model. A handy battery-saver function switches the meter off after 5 minutes if no keys have been pressed. This function can also be disabled.

Multiple Display Options

The Aqua Series displays up to three parameters simultaneously, for example Conductivity, pH and Temperature on the Aqua-CP. The user can choose which two parameters are displayed. Alternatively, a large digit mode is available which displays one parameter at almost double the digit size.

Australian Made

The Aqua 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. The Aqua Series sets the standard for Quality, Service and Value for handheld instruments.

Model	pH	mV	Conductivity	TDS	Dissolved Oxygen	Temperature	Notes
Aqua-pH	●	●				●	Ideal for School, College and University teaching labs
Aqua-CP	●		●	●		●	Single Conductivity & TDS ranges
Aqua-CP/A	●		●	●		●	Auto-ranging Conductivity & TDS
Aqua-DO ₂					●	●	Uses TPS ED1 Dissolved Oxygen sensor
Aqua-DO ₂ /Y					●	●	Uses YSI Dissolved Oxygen sensor
Aqua-DP	●				●	●	Uses TPS ED1 Dissolved Oxygen sensor
Aqua-C			●	●		●	Auto-ranging Conductivity & TDS
Aqua-TP	●	●		●		●	Features pH, ORP, TDS plus Salinity for pools and spas

Aqua Series

General Specifications

Enclosure

Rugged ABS plastic case, waterproof to IP65. Connectors also waterproof to IP65. The instrument will float if dropped into water.

Display

24 character alphanumeric LCD with user-friendly menu system and full text messages.

Battery Saver

On Auto switch-off after 5 minutes.

Off Continuous use.

Power

9V Alkaline Battery for up to 100 hours depending on model.

Dimensions

158 x 80 x 31 mm

Mass

Instrument only Approx 250 g

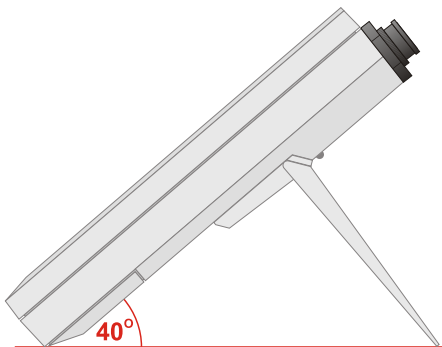
Full Kit. Up to 1.5 kg, depending on model

Environment

Temperature 0 to 45 °C

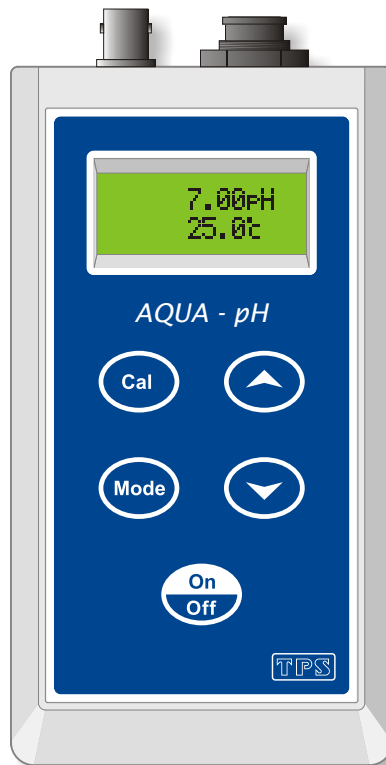
Humidity 0 to 95% R.H.

Fold-out Stand



Aqua-pH

pH-mV-Temperature Meter



Ordering Information

Aqua-pH 121112

Kit Includes

pH Sensor with Porous Teflon . 121207

Double Junction Reference

Temperature/ATC Sensor 121247

pH6.88 Buffer, 200mL 121306

pH4.00 Buffer, 200mL 121381

9V Alkaline Battery 130026

Aqua-pH Handbook 130050

Options

Aluminium Carry Case 130057

Optional pH Sensors

Intermediate Junction pH . . . 121234

Submersible pH Sensor, 5m. . . 111224

Optional Redox (ORP) Sensors

ORP Sensor with Porous Teflon. 121262

Double Junction Reference

Intermediate Junction ORP . . 121263

Aqua-C

Conductivity-TDS-Temperature Meter



Ordering Information

Aqua-C. 122162

Kit Includes

Plastic k=1/ATC/Temp Sensor . 122201

2.76mS/cm Cond Std, 200mL . . 122306

2ppK TDS Standard, 200mL . . . 122307

9V Alkaline Battery 130026

Aqua-C Handbook 130050

Options

Aluminium Carry Case 130057

Optional Conductivity Sensors

Plastic k=10/ATC/Temp Sensor . 122219

Plastic k=0.1/ATC/Temp Sensor 122199

Glass k=1.0/ATC/Temp Sensor . 122216

Glass k=10/ATC/Temp Sensor . . 122212

Glass k=0.1/ATC/Temp Sensor . 122229

Extended cable / metre 130040

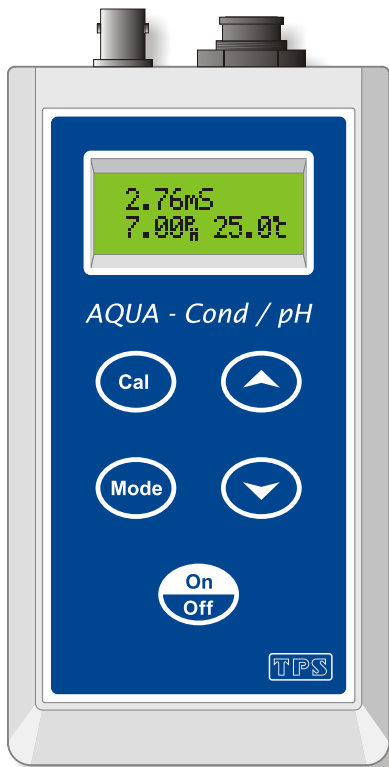
(Maximum 10 metre cable length)

Ideal for School, College and University teaching labs

The Aqua-C features auto-ranging Conductivity & TDS.

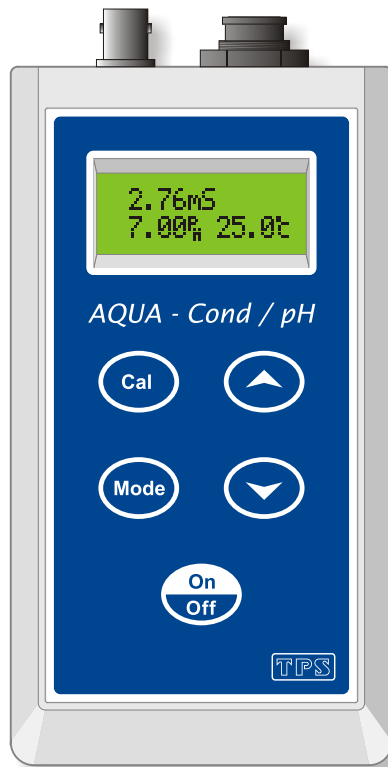
Aqua-CP

Conductivity-TDS-pH
Temperature Meter



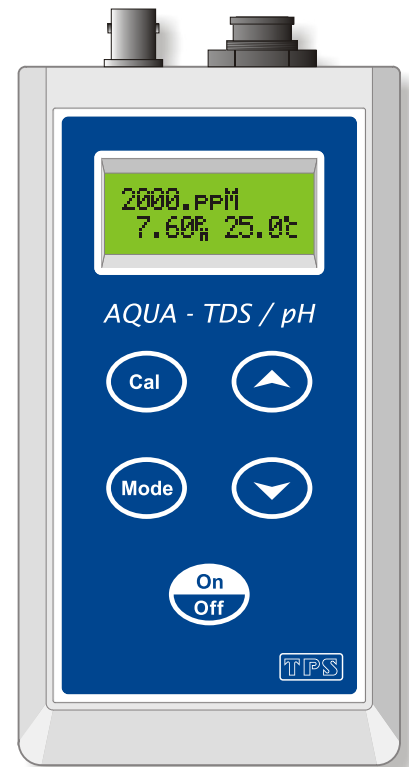
Aqua-CP/A

Conductivity-TDS-pH
Temperature Meter



Aqua-TP

TDS-Salinity-pH-ORP
Temperature for Pools



Ordering Information

Aqua-CP 121134

Kit Includes

- pH Sensor with Porous Teflon . 121207
- Double Junction Reference
- Plastic k=1/ATC/Temp Sensor . 122201
- pH6.88 Buffer, 200mL 121306
- pH4.00 Buffer, 200mL 121381
- 2.76mS/cm Cond Std, 200mL. . . 122306
- 2ppK TDS Standard, 200mL . . . 122307
- 9V Alkaline Battery 130026
- Aqua-CP Handbook 130050

Options

- Aluminium Carry Case 130057

Optional Conductivity Sensors

- Plastic k=10/ATC/Temp Sensor . 122219
- Plastic k=0.1/ATC/Temp Sensor 122199
- Glass k=1.0/ATC/Temp Sensor . 122216
- Glass k=10/ATC/Temp Sensor . . 122212
- Glass k=0.1/ATC/Temp Sensor . 122229
- Extended cable / metre 130040
(Maximum 10 metre cable length)

Optional pH Sensors

- Intermediate Junction pH . . . 121234
- Submersible pH Sensor, 5m. . . 111224

The Aqua-CP has single Conductivity & TDS ranges

Ordering Information

Aqua-CP/A 121135

Kit Includes

- pH Sensor with Porous Teflon . 121207
- Double Junction Reference
- Plastic k=1/ATC/Temp Sensor . 122201
- pH6.88 Buffer, 200mL 121306
- pH4.00 Buffer, 200mL 121381
- 2.76mS/cm Cond Std, 200mL. . . 122306
- 2ppK TDS Standard, 200mL . . . 122307
- 9V Alkaline Battery 130026
- Aqua-CP/A Handbook 130050

Options

- Aluminium Carry Case 130057

Optional Conductivity Sensors

- Plastic k=10/ATC/Temp Sensor . 122219
- Plastic k=0.1/ATC/Temp Sensor 122199
- Glass k=1.0/ATC/Temp Sensor . 122216
- Glass k=10/ATC/Temp Sensor . . 122212
- Glass k=0.1/ATC/Temp Sensor . 122229
- Extended cable / metre 130040
(Maximum 10 metre cable length)

Optional pH Sensors

- Intermediate Junction pH . . . 121234
- Submersible pH Sensor, 5m. . . 111224

The Aqua-CP/A features auto-ranging Conductivity & TDS.

Ordering Information

Aqua-TP 121136

Kit Includes

- pH Sensor with Porous Teflon . 121207
- Double Junction Reference
- Plastic k=1/ATC/Temp Sensor . 122201
- pH6.88 Buffer, 200mL 121306
- pH4.00 Buffer, 200mL 121381
- 2ppK TDS Standard, 200mL . . . 122307
- 0.8% Salinity Standard 122308
- 9V Alkaline Battery 130026
- Aqua-TP Handbook 130050

Options

- Aluminium Carry Case 130057

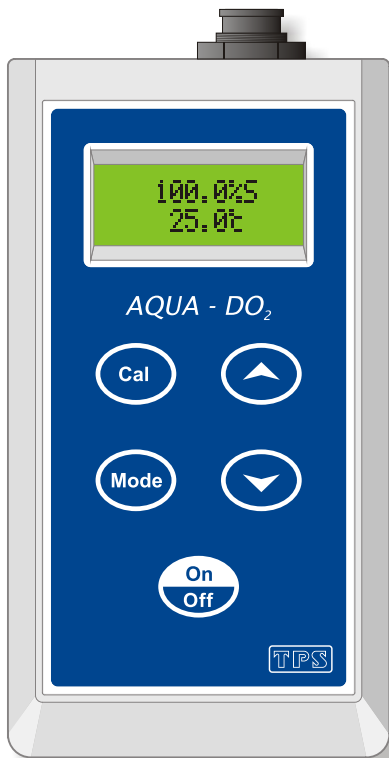
Optional ORP Sensor

- ORP Sensor with Porous Teflon . 121262
- Double Junction Reference

The Aqua-TP is made for Swimming & Spa Pools.

Aqua-D

Dissolved Oxygen-
Temperature Meter



Ordering Information

Aqua-D 123143

Kit Includes

9V Alkaline Battery 130026
Aqua-D Handbook 130050

Options

Aluminium Carry Case 130057
BOD Bottle adaptor 123201

ED1 Sensor and cable are optional

ED1 DO₂/Temp Sensor 123400
1m Cable 123228
3m Cable 123230
5m Cable 123232
Extended cable / metre 130040

Spares

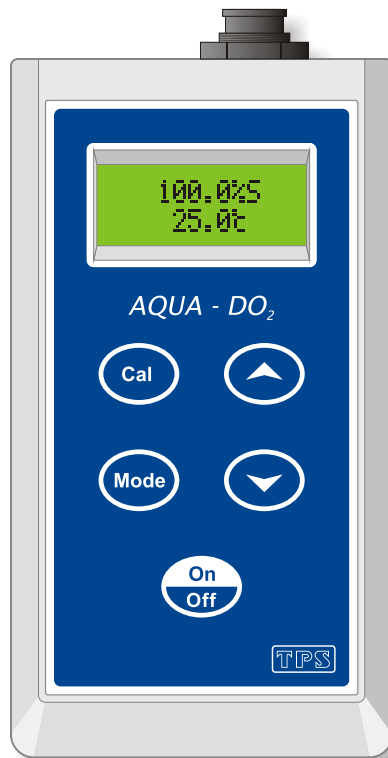
Membrane, Filling Solution, . 123301
and Zero Calibration Kit
Sodium Sulphite for Zero . . . 123302
Calibration, 50g
Filling Solution, 45mL 123303
ED1 Probe Protector 123202

**The maximum submersion depth
for the ED1 is 3 metres.**

**The Aqua-D uses the TPS ED1
Dissolved Oxygen sensor.**

Aqua-DY

Dissolved Oxygen-
Temperature Meter



Ordering Information

Aqua-DY 123144

Kit Includes

9V Alkaline Battery 130026
Aqua-DY Handbook 130050

Options

Aluminium Carry Case 130057

YSI Sensor and cable are optional

YSI DO₂/Temp Sensor 123204
1m Cable 123212
3m Cable 123221
5m Cable 123222
YSI non-stirring BOD 123214
YSI self-stirring BOD 123213
Extended cable / metre 130040

Spares

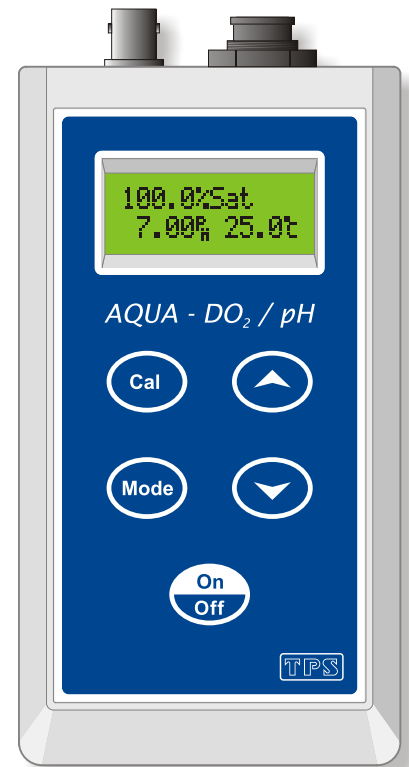
Membrane, Filling Solution, ...123300
and Zero Calibration Kit
Sodium Sulphite for Zero.....123302
Calibration, 50g
Filling Solution, 45mL123303

**Extended cable is available only
for the 123204 sensor (max 60m).**

**The Aqua-DY is compatible with
YSI dissolved oxygen sensors.**

Aqua-DP

Dissolved Oxygen-
pH-mV-Temp Meter



Ordering Information

Aqua-DP 123152

Kit Includes

pH6.88 Buffer, 200mL 121306
pH4.00 Buffer, 200mL 121381
9V Alkaline Battery 130026
Aqua-DP Handbook 130050

Options

Aluminium Carry Case 130057
BOD Bottle adaptor 123201

ED1 Sensor and cable are optional

ED1 DO₂/Temp Sensor 123400
1m Cable 123228
3m Cable 123230
5m Cable 123232
Extended cable / metre 130040

pH Sensor is optional

pH Sensor with Porous Teflon . 121207
Double Junction Reference
Submersible pH Sensor, 5m . . 111224

Spares

Membrane, Filling Solution, . 123301
and Zero Calibration Kit
Sodium Sulphite for Zero . . . 123302
Calibration, 50g
Filling Solution, 45mL 123303
ED1 Probe Protector 123202

**The maximum submersion depth
for the ED1 is 3 metres.**

**The Aqua-DP uses the TPS ED1
Dissolved Oxygen sensor.**

Model	Range(s)	Resolution	Accuracy	General Specifications								
pH	0 to 14.00 pH	0.01 pH	±0.01 pH	<ul style="list-style-type: none"> ▶ One-touch calibration in pH4.00, pH6.88, pH7.00, pH9.23 and pH10.06 Buffers ▶ -1.00 to +1.00 pH Asymmetry range ▶ 85.0% to 105.0% Slope range ▶ >3 x 10¹² Ohms input impedance ▶ Automatic or manual temperature compensation, 0 to 100 °C 								
Millivolts	0 to 1500 mV	1 mV	±1 mV	<ul style="list-style-type: none"> ▶ Factory-set calibration ▶ Temperature compensation not applicable 								
Conductivity	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 0 to 10.00 mS/cm k=1.0 Sensor 0 to 20.00 uS/cm 0 to 200.0 uS/cm 0 to 2000 uS/cm 0 to 20.00 mS/cm 0 to 100.0 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 0 to 1000 mS/cm	0.001 uS/cm 0.01 uS/cm 0.1 uS/cm 1 uS/cm 0.01 mS/cm 0.01 uS/cm 0.1 uS/cm 1 uS/cm 0.01 mS/cm 0.1 mS/cm 0.1 uS/cm 1 uS/cm 0.01 mS/cm 0.1 mS/cm 1 mS/cm	±0.2 % of full scale of selected range at 25.0 °C	<ul style="list-style-type: none"> ▶ One-touch calibration in 150 uS/cm, 1413 uS/cm, 2.76 mS/cm, 12.88 mS/cm, 58.0 mS/cm standards ▶ Span range 75% to 133% of nominal k factor ▶ Automatic temperature compensation, 0 to 100 °C These ranges are fixed for the Aqua-CP								
TDS	k=0.1 Sensor 0 to 1.000 ppM 0 to 10.00 ppM 0 to 100.0 ppM 0 to 1000 ppM 0 to 5.00 ppK k=1.0 Sensor 0 to 10.00 ppM 0 to 100.0 ppM 0 to 1000 ppM 0 to 10.00 ppK 0 to 50.0 ppK k=10 Sensor 0 to 100.0 ppM 0 to 1000 ppM 0 to 10.00 ppK 0 to 100.0 ppK 0 to 500 ppK	0.001 ppM 0.01 ppM 0.1 ppM 1 ppM 0.01 ppK 0.01 ppM 0.1 ppM 1 ppM 0.01 ppK 0.1 ppK 0.1 ppM 1 ppM 0.01 ppK 0.1 ppK 1 ppK	±0.5 % of full scale of selected range at 25.0 °C	<ul style="list-style-type: none"> ▶ One-touch calibration in 69.5 ppM, 2000 ppM, 8.00 ppK, 36.0 ppK standards ▶ Span range 75% to 133% of nominal k factor ▶ Automatic temperature compensation, 0 to 100 °C These ranges are fixed for the Aqua-CP								
Dissolved Oxygen	0 to 25.0 ppM 0 to 250.0 % Saturation	0.1 ppM 0.1 % Saturation	±0.1 ppM ±0.3 % Saturation	<ul style="list-style-type: none"> ▶ One-touch calibration at Zero and in Air ▶ Sensor Zero range 0% to 7% ▶ Sensor Span range 70% to 135% ▶ Salinity correction user-set from 0 to 50.0 ppK NaCl ▶ Clark type polarographic sensor with inbuilt ATC ▶ Automatic temperature compensation, for: <ol style="list-style-type: none"> 1. Membrane permeability 2. Oxygen solubility in ppM mode 								
Temperature	-10.0 to 120.0 °C	0.1 °C	±0.2 °C	<ul style="list-style-type: none"> ▶ Calibration against reference thermometer. ▶ Sensor Offset range -10.0 to +10.0 °C ▶ The following temperature limits apply to sensors... <table style="margin-left: 20px; border: none;"> <tr> <td>Temperature probe</td> <td>: 120 °C</td> </tr> <tr> <td>pH Sensor</td> <td>: 60 °C</td> </tr> <tr> <td>Conductivity/TDS sensor</td> <td>: 60 °C</td> </tr> <tr> <td>Dissolved Oxygen sensor</td> <td>: 50 °C</td> </tr> </table> 	Temperature probe	: 120 °C	pH Sensor	: 60 °C	Conductivity/TDS sensor	: 60 °C	Dissolved Oxygen sensor	: 50 °C
Temperature probe	: 120 °C											
pH Sensor	: 60 °C											
Conductivity/TDS sensor	: 60 °C											
Dissolved Oxygen sensor	: 50 °C											



A.B.N. 30 009 773 371
 TPS reserves the right to change this specification without notice.
 Version 1.0W, 13-May-2003.

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