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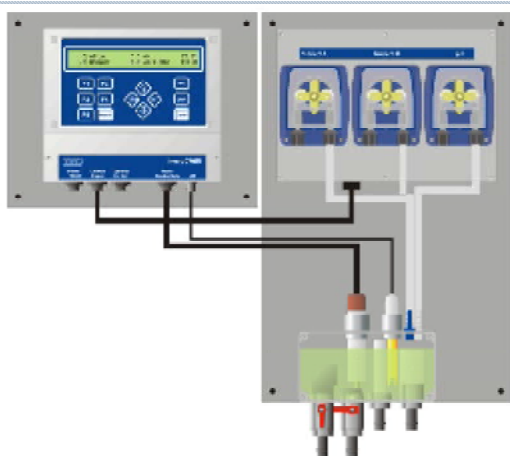
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TPS Australia - Quality instruments since 1968.

hydroCHEM-DS Conductivity and pH Dosing System



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- ◆ **Fully configured controller for Conductivity and pH in Hydroponic applications.**
- ◆ **Temperature readout is provided, and optional temperature control output is optionally available. All components are pre-installed onto the single panel. All that the end-user needs to do is cut the tubing to the desired lengths plug it in and turn it on. Low maintenance, reliable peristaltic pumps. Supplied with all fittings and accessories.**
- ◆ **The new advanced design makes this unit far superior and yet cheaper and easier to use than other brands. The hydroCHEM Dosing System is the culmination of over 30 years manufacturing experience.**
- ◆ **The hydroCHEM Dosing System is quite simply the best hydroponics controller available anywhere in the world in its price bracket.**

- ◆ Pre-installed onto mounting panels. No further installation required.
- ◆ Waterproof construction rated to IP65.
- ◆ Highly reliable peristaltic pumps included.
- ◆ Memory for 2300 stored readings, with automatic datalogging facility (optional).
- ◆ RS232 Interface for remote monitoring of system (optional).
- ◆ Flow sensing to ensure system functions correctly.
- ◆ Large digit mode makes the data easy to read in any light or from a distance.
- ◆ Automatic calibration

- ◆ Quick-dose function
- ◆ Temperature readout with optional temperature control output.
- ◆ Fully adjustable ON and OFF times can be set separately for Conductivity and pH pumps, eliminating over-dosing.
- ◆ User can select acid or alkali addition.
- ◆ Password protection, so only qualified users can change set-up or calibration.
- ◆ Good laboratory practices (GLP) function brings analytical Q.A. to the hydroponics farmer. Instant recall of current calibration and system set-up information.
- ◆ 24 Hour calendar clock (optional)

- ▼ Automatic calibration
- ◆ 4 Terminal conductivity sensor technology resists fouling for maximum reliability.
- ◆ User can choose readout in mS/cm, CF units, dS/M or ppm (TDS).

- ▼ 24 Hour Calendar Clock (optional).
- ◆ Emergency shutoff timer shuts off Conductivity and pH pumps if they operate continuously for user-set time.
- ◆ Operates off a single AC/DC power supply. No electrical installation required.

Specifications

pH

Ranges : 2.0 to 12.0 pH
2.00 to 12.00 pH*

Resolutions: 0.1 pH
0.01 pH*

Accuracy : +/-0.01pH

Conductivity

Ranges : 0 to 9.9 mS/cm
0 to 9.99 mS/cm*
0 to 99 CF
0 to 99.9 CF*
0 to 9.9 dS/m
0 to 9.99 dS/m*

Resolutions: 0.1 mS/cm
0.01 mS/cm*
1 CF
0.1 CF*
0.1 dS/m
0.01 dS/m*

Accuracy : +/-0.5% of full scale

TDS

Ranges : 0 to 9.9 ppK
0 to 9.99 ppK*

Resolution : 0.1 ppK
0.01 ppK*

Accuracy : +/-1.0% of full scale

Temperature

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

Temperature Compensation

Automatic Temperature Compensation for Conductivity, TDS and pH. Uses temperature sensor built into Conductivity sensor

Calibration

Automatic calibration for all parameters, with automatic standards recognition.

Enclosure

Tough ABS enclosure, fully waterproof to IP65.

Good Laboratory Practices

All calibration information and user-adjustable set-up information is stored in memory, and can be recalled on the display at any time. This information can also be printed or downloaded to a computer, when the optional Plus Pack is fitted.

The unit's serial number is stored in memory. This is displayed at turn-on, and included with GLP information.

Plus-Pack Option

The Plus Pack option includes the following items...

- ◆ RS232 Serial Interface for
- ◆ Datalogging capability.
- ◆ 24 Hour Calendar Clock.
- ◆ Selectable High or Low

Datalogging*

Memory

2300 readings, including date and time.

Notepad

Records reading into memory at the touch of a button.

Automatic Datalogging

User selectable for one reading every...

1,2,5,10,15,20 or 30 minutes
or every...

1,2,3,4,6,8,12 or 24 hours

RS232 Serial Interface*

300, 9600 and 19200 Baud.
8 Bits, No Parity, 1 Stop Bit, XON/XOFF Protocol

Calendar Clock*

24 Hour Calendar Clock

Peristaltic Pumps

- ◆ 3 x 6 Litre/ Hour
- ◆ Chemical resistant Santoprene

Display

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

Dimensions

1 panel 235 x 300mm and

1 panel 470 x 300mm

Mass

Full Kit : Approx 8.0kg

Environment

Temperature : 0 to 45 °C

Humidity : 0 to 95% R.H.

Power

24V DC, 300mA Max with both pumps on. AC/DC Adaptor to suit specified country is supplied.

*These items applicable when Plus-Pack option is fitted.

Ordering Information

	Part No
hydroCHEM-DS Dosing.....	111109
System with peristaltic pumps, sample chamber and mounting panel	

Kit Includes

hydroCHEM Controller....	111103
Dosing Panel with 3.....	116320
pumps and sample chamber	
4 Terminal Cond Sensor..	122205
(also used for temperature and flow detection)	
Gel-filled pH Sensor....	121227
pH7.00 Buffer, 200mL....	121387
pH4.01 Buffer, 200mL....	121381
2.76mS/cm Conductivity Standard, 200mL.....	122306
AC/DC Power Adaptor....	Specify Country
3 x 2m Input Tubing....	116358
3 x 2m Output Tubing....	116360
3 feed drum weights....	116354
10m of 13mm Poly Tube...NPH.5	
4 x 13mm Poly Clips.....	NC13
hydroCHEM Manual.....	130050

	Part No
Instrument Options	
Plus-Pack option.....	130100
(includes RS232 cable)	

Communication Software for Windows.....	130086
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Spares

RS232 Interface Cable...	130041
Pump Tube Assembly.....	116352
Pump Tube Lubricant, 3mL.	130103

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

 [Download the full colour Hydroponics Products Brochure \(2.08 MB PDF\).](#)

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

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TPS reserves the right to change any part of this specification without notice.

Version 4.0

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