



MEASURE | MONITOR | MASTER

# Aquamonix Update



IN THIS ISSUE

## G'day from GreenSpan!

Welcome to the first of our Aquamonix quarterly newsletters.

For those of you whom we haven't touched base with lately – G'day and welcome back! If Aquamonix is new to you, please read on – you'll get a snippet of who we are and what we are about.

Our motto is **Measure, Monitor, Master** – and quite simply,

**"We aim to make it easier to manage and measure the use and quality of Australia's water, using our experience, proven technology and an innovative customer focused approach"**

This edition will focus on our GreenSpan Sensor business unit and what has been happening in this key area of our organisation.

In the lead-up to joining Aquamonix in 2015, the GreenSpan business was in a state of flux. Previous owners, Pentair Environmental Systems, had not really invested in the business and the brand had become lost

amongst the many other products Pentair was actively marketing.

GreenSpan were also settling into their new premises within the Milperra manufacturing facility – such a big move from their original establishment in Warwick. Change coupled with a lack of investment impacted lead times and introduced minor quality issues.

We are now pleased to report that we are back on track and ready to support our loyal customers, and welcome new ones!

The GreenSpan brand is well supported by a crew of talented team members here at Aquamonix and we are excited to share some of the great things we have been working on.



### Maximise your Sensor's life

Protect your asset! A few simple steps can help you get the best out of your sensor and extend its life. Read more on...

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### Manufacturing Milestone

The Greenspan brand has been around for some time. This month our manufacturing celebrated a big milestone...

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### Innovation Announcements

We're constantly looking at ways to improve our offering to the market. Check out the features of our new and improved turbidity head. Superior to that of the prior model, we're making turbidity measurement easier and more accurate...

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### Meet & Greet!

Learn more about the Aquamonix team and how they are supporting our Greenspan range...

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# How to maximise your sensor's life

by Kye Ridley-Smith

Here are few simple steps you can take to ensure you get the most out of your GreenSpan sensor:

## Sensible Site Installations

It is important to ensure that the installation of a sensor on site is suitable and considers some of the following factors:

- The location of the sensor should be easily accessible, suitable for accurate readings and protected from external damage (from debris in the water etc.). pH & ORP electrodes should not be installed in locations where they will sit dry (electrodes deplete at a vastly accelerated rate when dry).
- Turbidity sensors should not be set to wipe if they are dry as this could scratch the lens if there are any particles that have not been washed away.
- Cables should be away from sharp objects that could cut through the sheath and should be easy to remove from their installation without having to apply excessive force (GreenSpan cables have a protective Kevlar line running through them to take the weight of the sensor but can still be stretched if too much force is applied).

## Regular Calibrations

To maintain consistent and accurate measurements on your GreenSpan sensors, regular calibrations are encouraged.

- Field Calibrations are a suitable method for a quick 2-point calibration of a sensor to remove any minor offsets that may have developed.
- For analog sensors where there are no calibration utilities (except the PS1000/PS7000), offsets and multipliers may, instead, be applied on an external logger (if in use).
- Factory Calibrations are the best way to maintain the most accurate readings. The GreenSpan factory is able to use advanced in-house calibration software to complete multi-point calibrations including temperature dependent calibrations for the Pressure and EC parameters.



## MANUFACTURING MILESTONE:

# GreenSpan clocks over 15,000 units!

Exciting times in the GreenSpan sensor lab earlier this month as it manufactured and delivered sensor number 15,000!

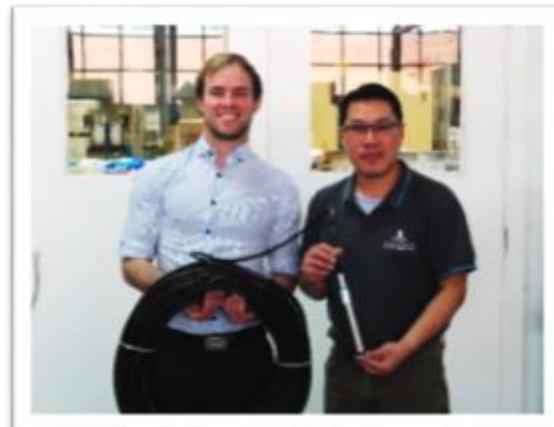
Pictured right are Greenspan Sensors Engineer, Kye Ridley-Smith alongside Sensors Technician, Kai-Tong Chin, showcasing the momentous level sensor – a PS7000.

Well done team!

## Accessories & Replacements

GreenSpan offers a wide range of accessories and replaceable components to allow users to get the most out of their sensors.

- All pH & ORP electrodes are field replaceable and should be replaced when an electrode is no longer able to give the full span of readings, even after a calibration.
- Reference protection rings and shrouds should be used on all electrodes to protect both the sensing end (pH bulb or ORP tip) and the ceramic reference wick.
- Turbidity wipers are replaceable and should be replaced as soon as they have worn down to prevent damage to the lens.
- Closed Vent Systems (CVS) must be used for all gauge pressure sensors to condition the atmospheric air and prevent moisture contamination.
- Copper accessories are available for pressure transducers and electrodes to prevent bio-fouling.
- Detachable Cable (DCC) caps should be used for DCC sensors with no cable attached.



## INNOVATION ANNOUNCEMENTS



## New & Improved Turbidity Head

July 1 saw the release of our new and improved turbidity head. The new head has been designed and developed in Australia for use on all GreenSpan turbidity sensors (both the TS1000 and MP47/65 variations).

### New Features include:

- New Optics design allowing for:
  - Highly accurate measurements
  - Increased temperature stability.
  - Increased range offering between 10NTU & 5000NTU

From the 1<sup>st</sup> of July 2017, all turbidity sensors will be supplied with the new turbidity head. This will result in a 17mm increase to the overall sensor length to make way for the new optics.

[Read the full Innovation Announcement Here](#)

## Cables that stand the test of time

After the successful implementation of a new cable mould design in 2013 that saw improvements to the strength and long-term life of the cable mould, GreenSpan has made further improvements to the cable moulding.

While the design has remained the same due to its proven track record, we have partnered with a subsea equipment and service provider who specialise in deep sea underwater applications to undertake the moulding process.

This partnership also sees the following improvements:

- Updated the Polyurethane material to ensure the strongest bond between cable sheath and mould
- Increased the cure time
- Improved the tooling design

# Meet the GreenSpan Team

Each issue we'll introduce you to one of our talented team members that are here to help and support you. We are proud of the team we have built and can safely say we have some of the best talent in the industry.

Meet our resident Mechatronics Engineer - [Kye Ridley-Smith](#). Kye graduated from the University of Sydney with First Class Honours. Kye provides Product Development and Engineering support to the Aquamonix business with a focus on sensors and flow meters.

Kye is experienced in his field of expertise. Before joining Aquamonix, he worked with Goodman Fielder at their Erskine Park site, where he managed a number of major equipment installations. He also brings an impressive sales record with a leading technology supplier, achieving the top sales position for Australia.

One of his hobbies is repairing and upcycling electronic equipment which led him to found The Sydney University Maker Club. This kind of entrepreneurial spirit and drive is crucial to us in enhancing our sensor products in particular using intelligent engineering.



Kye Ridley-Smith (pictured left) with another of our Engineering talents – Julien Seno (right)



[www.aquamonix.com.au](http://www.aquamonix.com.au)

The Aquamonix website is where you'll find a host of useful info – Locate the latest user manuals, software, quick start guides and more!



# Say Hello to our best seller



**GreenSpan's PS7000** is easily one of our bestselling units. It's small 22.5mm diameter and wide selection of standard depth ranges make it ideal for almost all level monitoring applications.

Manufactured in our Sydney plant with a fast lead time of 10 days (we can often ship earlier if required), we have the agility to supply you with a customised unit in a similar timeframe to having it ready to go straight off the shelf!

## FEATURES

- Loop powered – battery or solar
- Broad range of outputs – 4-20mA, 0-2.5VDC, RS232 and SDI-12
- 0.1% FS accuracy for pressure
- Temperature Output via RS232
- Field re-ranging and calibration
- User inputs for fluid density and local gravity
- Double O-ring design and moulded cable gland
- ½" diameter ceramic capacitance transducer
- Slim line body (22.5mm)
- Long term stability better than 0.2% per annum
- Optional adapter for SDI-12 output
- Optional threaded fitting for process connection

Here's a quick snapshot of the key specifications – perhaps the PS7000 can be used in your next level monitoring project!

## SPECIFICATIONS

<b>Measurement Technique:</b>	½" ceramic capacitance transducer
<b>Gauge Ranges Available:</b>	2.5, 5, 10, 20, 40, 75, 100m
<b>Absolute Ranges Available:</b>	20, 40, 75, 100m
<b>Sensor Output:</b>	4-20mA, 0-2.5V, RS232 (via Serial Breakout Adapter: 085-0080), SDI-12 (via SDI-12 Converter: 7SDI-1000)
<b>Closed Vent System (CVS):</b>	Gauge sensors must be fitted with a CVS
<b>Power Supply:</b>	8-30V DC (loop powered)
<b>Dimensions:</b>	278mm x 22mm (11" x 0.86")

## AQUAMONIX CONTACTS

Here is a list of handy contacts to keep at your fingertips:

**1300 797 246**

[info@aquamonix.com.au](mailto:info@aquamonix.com.au)

[www.aquamonix.com.au](http://www.aquamonix.com.au)

### Australian locations

#### Head Office & Manufacturing

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#### Sales & Distribution Centres

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6090 | 08 9477 1188

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3616 | 0419 991 207  
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NSW 2450 | 0418 674 823

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