AlkaSense®
Online Total Alkalinity Analyser

The AlkaSense® from Pi measures total alkalinity online with none of the problems associated with traditional total online methods. When paired with the AutoPool® 4.0, it offers optimum control of chemical dosing in pools.

Traditional online alkalinity methods include titrating a sample to known pH (e.g. pH 4.3) or colorimetric methods with the additions of multiple expensive reagents. The problem with the former is that pH sensors have a short life (often measured in months rather than years) and require frequent calibrations and cleaning. The problem with the online colorimetric method is the frequent changing of expensive reagents, and both methods are expensive to purchase.

In comparison the novel use of conductivity as the measurement method in the AlkaSense® means that:

- **Online alkalinity method -** no calibration required
- **A single inexpensive reagent**
- **Works out of the box -** plug it in and off you go!
- **Stable and reliable -** excellent process control
- **Suitable for all pool waters**
- **Up to 6 months between maintenance**
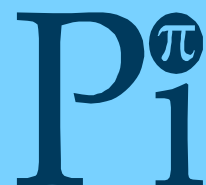- **Typically 2 months reagent life**

AUTOPOOL® 4.0 with ALKASENSE®

The online alkalinity analyser from Pi cleverly uses a conductivity sensor to identify the point when alkalinity is used up in a pool sample by adding an acid. Simple to set up and use, with minimal maintenance, the online alkalinity measurement is made every 10 minutes and can adjust acid dosing or the CO_2/ acid ratio to maintain an alkalinity setpoint.

LOW TOTAL COST of OWNERSHIP

ENVIRONMENTALLY RESPONSIBLE

STABLE AND RELIABLE
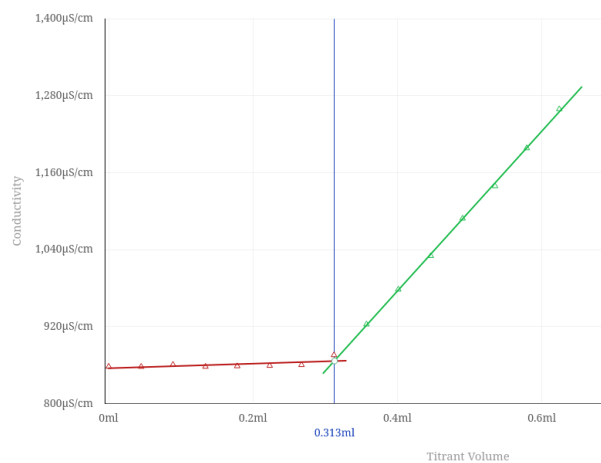
EASY AND SIMPLE MAINTENANCE

REAGENT WARNING AND EMPTY ALARMS

INDUSTRY LEADING SUPPORT

PRINCIPLE of OPERATION

With no pH sensor, the AlkaSense® uses a conductivity sensor to indicate when the alkalinity in the sample is used up by the automatic titration of an acid. As the acid is added it uses up alkalinity and changes the conductivity. Once all the alkalinity is gone, by continuing to add acid the conductivity changes but in a different way. As AlkaSense® knows the amount of an acid of known normality that has been added, it can calculate the total alkalinity of the sample. This clever use of conductivity as a measurement means that the AlkaSense® never needs to be calibrated! In turn, this will enable operators who have previously been restricted to offline alkalinity measurements to measure alkalinity online with the automation that opens up, such as in swimming pools, water treatment works, and cooling towers.

For more information about AlkaSense® and to discuss your application, process control requirements, and any remote communications, please contact Pi and talk to one of our technical specialists.

RESELLERS

- ✓ **Private label branding (no minimum order)**
- ✓ **Geographical exclusivity**
- ✓ **Product training**
- ✓ **Online support by email and telephone**
- ✓ **Free MutoDrive® with all AutoPools®**

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