

xylem



# Precision Quality Analysis

GLOBALLY RECOGNISED BRANDS YOU CAN RELY ON



# Who are Xylem?

Xylem is focused on helping our customers solve their most challenging water issues.

Treating water to make it potable, transporting it to where it is needed, using it in the most efficient manner, analyzing its quality and cleaning it after its many uses.

For over a century, Xylem's well known global brands have served the laboratory instrumentation market. We offer deep application expertise from decades of leading innovation with products, systems and services that address the needs of modern day industrial processes.

Our products are sold into more than 150 countries.

Xylem works to solve challenges across many different industries. From residential and construction to food & beverage.

Working in true partnership with our customers and end users, we listen, learn and adapt to local environments, delivering solutions with more impact than ever before.

## Xylem |'zīləm|

Derived from classical Greek, our name refers to the supporting tissues that help transport water and nutrients from a plant's roots to its leaves.

To the people of Xylem, our name stands for our promise to live our values while solving our customers' most challenging water problems and to set industry standards for fluid technology applications and water solutions.

Whether that problem involves a pumping conundrum, a difficult filtration process, a challenging analysis or a requirement to dispense the perfect beverage time-after-time; Xylem's goal is to meet that need.

For many years Xylem brands have been supplying the world's leading researchers and laboratories with analytical instrumentation through its globally recognised brands; Bellingham + Stanley, YSI, OI Analytical, SI Analytics, ebro, WTW and more.



# How can Xylem help you?

Xylem's analytical involvement spans right across the manufacturing and distribution cycle; monitoring the **water used** to irrigate the crops we grow in the field, within the production and **cold-chain distribution** processes right through to the **consumer**. Quality control, safety and efficient processing is paramount at every stage; Xylem helps satisfy this need.

In food & beverage for example, before the first seeds are planted in the fields, Xylem helps to capture, clean and transport the water we use and to provide efficient energy from renewable sources such as ground source heat pumps. Here though, we take a look at Xylem's analytical involvement in the industrial processes affecting our everyday lives, making a product safe to consume or use, and regulating quality so it is consistent time after time.

From the shampoo we use first thing in the morning to the hot or cold beverage we drink at breakfast - even the aspirin we take to combat the effects of the evening before - Xylem touches every part of our lives. So how does this all work? You may not think it, but every process that produces goods uses water - from the manufacture of the clothes we wear to the plastic bottles we drink from, the irrigation of fields to the transport of their produce - vast quantities of water taken from our finite resource are used to meet our everyday needs.

## Optical Analysis

Refractometers • Polarimeters • Spectrophotometers  
Photometers • Dissolved Oxygen • Turbidity

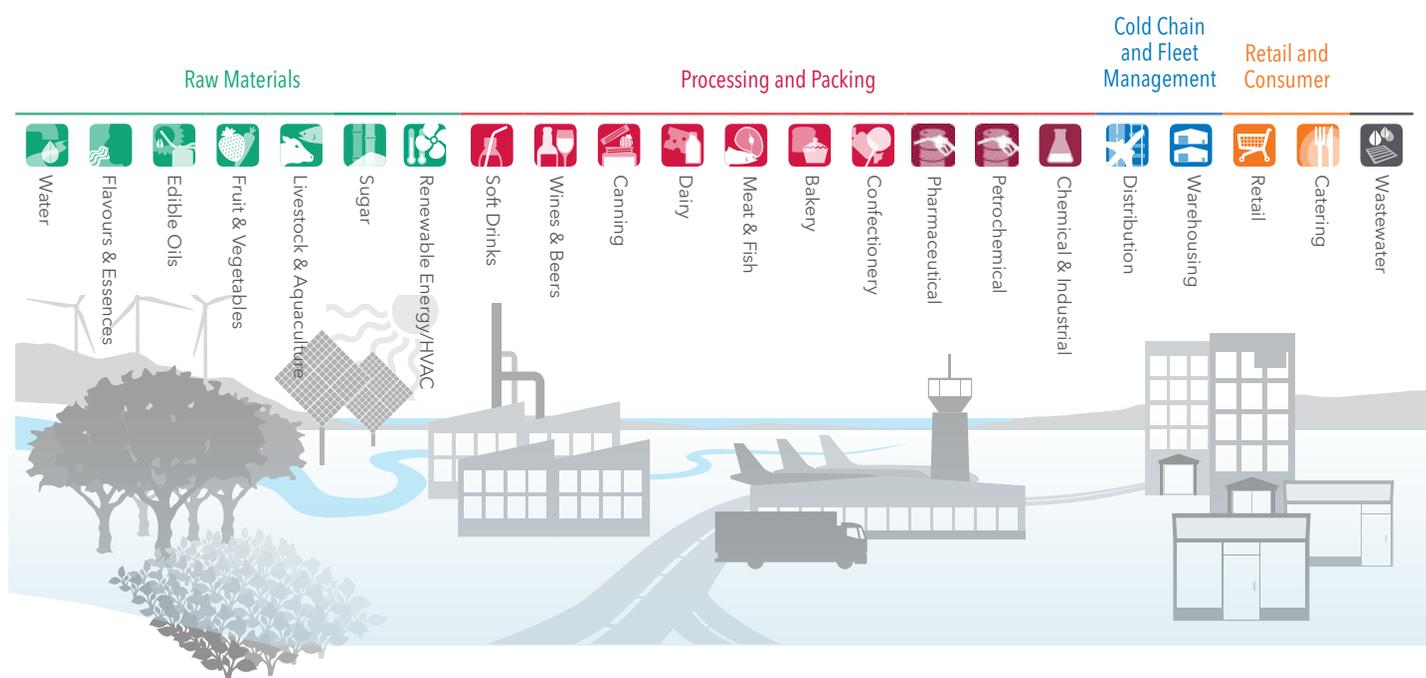
## Chemical Analysis

Titration • pH Electrodes • Conductivity Electrodes  
Biochemical Analyser • pH/ORP • GC Detectors  
Purge & Trap • TOC Analyser • VOC Analyser

## Physical Measurement

Temperature & Humidity Dataloggers • Viscometers  
Oil Quality Meter • Pressure Datalogger  
Precision Thermometers

## Innovative solutions every step of the way



# Expert analysis across the supply chain

## Raw Materials



The manufacturing process starts with raw materials, whether grown in the fields or synthesised at the chemical plant. Testing for purity, safety and quality at every stage of production is paramount.

As well as providing premium quality instrumentation for measuring key parameters such as pH, conductivity, turbidity and temperature; we provide analysis of volatile organic compounds, total organic carbon and pesticide residues, as well as helping determine the authenticity of foodstuffs.

Refractometers are also used throughout the production cycle testing the Brix, or sugar content, of fruit. This not only indicates when to harvest, but also forms part of the quality assessment made by the retailer upon which the farmer receives payment. Likewise, polarimeters are used to assess the purity of sugar beet or cane at the Tare House prior to being concentrated into syrup or crystallised for use in the home.



## Process and Packing



Xylem provides many critical analyses to the world's industrialised processing and packing industries, ensuring product safety and quality are not compromised. Instrument reliability is key, as failure can lead to lost production time, missed delivery deadlines, reduced margins and a negative reputation in the marketplace, costing profits from an already squeezed balance sheet.

Water treatment plays an important role at each end of the production process. Before it is used, photometry is used to identify chlorine and ozone content. Before it is discharged, laboratory and in-line analysis of contaminants takes place to ensure wastewater does not foul our rivers and waterways.

Every pharmaceutical product produced is rigorously tested from start to finish, from licensed products to everyday

medicines such as aspirin and paracetamol. High accuracy digital temperature controlled refractometers test raw materials, whilst Pharmacopoeia, the regulatory recipe book for all pharmaceuticals produced worldwide, dictates polarimeters should be used to test for purity. Spectrophotometric analysis of pharmaceuticals is also commonplace.

## Service to depend on

Xylem prides itself on supplying quality products and services. Our facilities in Tunbridge Wells operate in accordance with ISO9001:2015 and have recently gained ISO 14001 environmental management and OHSAS 18001 certifications. Our technical team is fully trained to support, maintain and validate the instruments we supply.

We are Safecontractor® certified and Sodexo® approved so that working on site is a seamless process.

In support, we have two calibration laboratories; one specialising in temperature calibration and the other in Refractive Index, Brix and optical rotation certification. Additionally our laboratories offer sample testing services. So whatever the laboratory need, Xylem ensures best practice from start to finish.



## Validation

Validation and routine checks of sterilizers, washer-disinfectors and autoclaves can easily be monitored with data loggers and the accompanying software - even in real time. The easy-to-use software analyses your processes automatically and provides you with a meaningful result.

Testing to make sure critical equipment is working as it should be is vital. Validation of instruments within the life science sector qualifies the performance of sterilisers, washer-disinfectors and autoclaves in hospitals or dentist surgeries - imperative to a successful patient outcome. Even refrigerators that store samples may need to be qualified using a process known as fridge mapping.



## Cold Chain and Fleet Management

Perishable items including blood samples and organs for medical applications, or fruit, vegetables, dairy, fish and meat in the food & beverage sector, require temperature or vacuum monitoring during transportation - easily achievable with thermometers and temperature data loggers from Xylem.

The latest digital handheld refractometer provides convenient measurement of automotive fluids such as glycols for radiators in trucks and specific instruments for AdBlue®, a diesel exhaust fluid that reduces emissions. Hydrometers and contamination test strips also help protect catalytic converters from damage that may result from impure additions to the feed tank.



## Retail and Consumer



Although most of the instrumentation supplied by Xylem is on a B2B platform, the general public will come into close contact with our products on a daily basis. In supermarkets, wireless refrigeration monitoring triggers remote alarms under fault conditions and simple core thermometers test the temperature thresholds of uncooked meats on display. Specialty meters test the oil quality in commercial deep fat fryers so that our chips taste better and are free from toxic build-up. Refractometers control the concentration of sauces and stocks in top class restaurants. Xylem helps to provide a safe, high quality end product that we can all enjoy.

## Wastewater Optimisation and Control

Xylem has a history as a trusted partner of both the municipal and commercial wastewater sectors, providing something much more valuable than just monitoring equipment and systems to ensure reliable plant operation and compliance: expertise. Our approach allows us to optimise and control water from inlet to outlet.



# Featured products from Xylem



## RFM Refractometers

For precise measurement of concentration and used extensively throughout the world's food, drinks, pharmaceutical, chemical and petroleum industries.

RFM refractometers feature ergonomic casing, easy-clean prism dish, simple to navigate menus, temperature compensation or Peltier temperature control and onboard METHODS system.



## ADP Polarimeters

Bellingham + Stanley manufactures high quality 'general purpose polarimeters' for use in a variety of applications, along with a range of sample tubes and quartz control plates for instrument validation.

All ADP polarimeters are compliant with all elements of Pharmacopeia and are suitable for use in high security environments operating in accordance with FDA regulation 21 CFR part 11.



## TitroLine Titrators

Building on decades of know-how, Xylem has developed a range of reliable laboratory instruments and accessories for titration, dosing, applications and Karl Fischer titrators for water content analysis.

Xylem provides a range of titration products commonly used in research and quality control laboratories in food and beverage, pharmaceutical and numerous other industries.



## TOC Analysers

Leveraging OI Analytical's expertise, Xylem offers TOC and TIC bench-top systems for highly accurate laboratory analysis of spot samples collected at designated intervals.

Designed to offer a smaller footprint than previous models and now with patented technology which helps to reduce maintenance.



## YSI Biochemistry

Bio-analytical instruments with highly accurate sensors - using enzyme technology - offers rapid results; used for many different applications.

From measuring important nutrients including glucose and glutamine in Bioprocessing, lactate in blood and plasma within medical research and xylose and glucose measurement in biofuels to measuring key ingredients and byproducts in the food and beverage industry.



## Validation

Validation and routine checks of sterilisers, washer-disinfectors and autoclaves can easily be monitored with ebro data loggers and accompanying software.

The easy-to-use software analyses your processes automatically and provides you with fast, accurate results.



## Multi-parameter meters

The WTW inoLab® range is comprised of single channel, dual channel, and three channel instruments used to accurately measure pH, ORP, DO/BOD and conductivity. Uses SenTix® digital sensors with wireless connectivity.

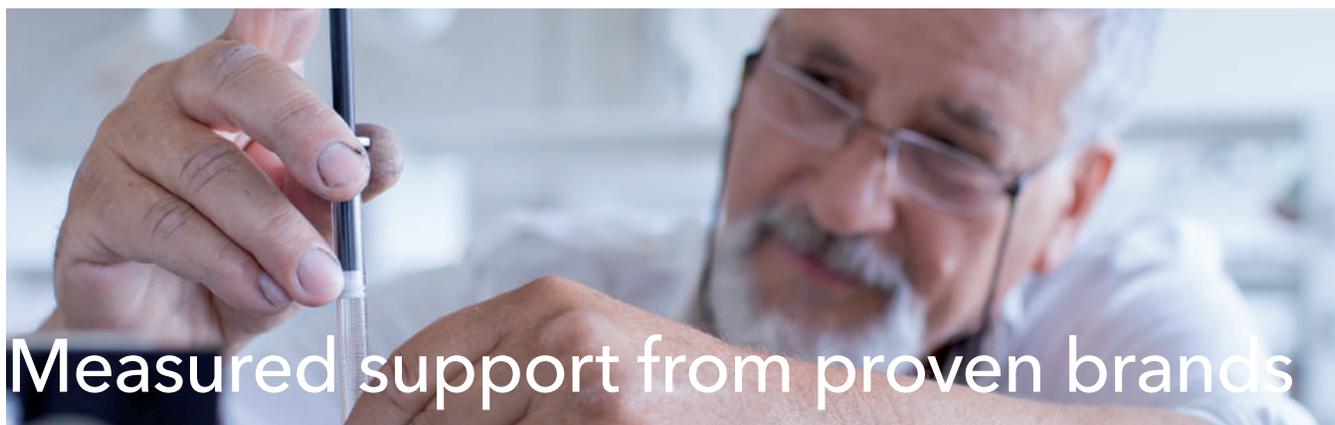
These instruments are designed to be easy to use and simple to calibrate, with menu-driven operation ideal for the laboratory. ISEs can also be connected to two and three channel instruments.



## Spectrophotometers

The photoLab® series of spectrophotometers combine latest optical technology with digital processing to provide users with an efficient and effective means of gathering spectrophotometric data in chemical, pharmaceutical, food, beverage and environmental applications.

The photoLab can display results in industry standard scales including CIE, EBC, ASTM and ICUMSA.



For a century, Bellingham + Stanley has been at the forefront of instrument design and technology and today is regarded by many international brands as the leader in the field of refractometry and polarimetry.

- Refractometers
- Polarimeters
- Certified Reference Materials

[www.bellinghamandstanley.com](http://www.bellinghamandstanley.com)

### SI Analytics

For 65 years, SI Analytics has been producing innovative electrodes and meters that today has culminated in some of the World's leading electrochemistry instrumentation.

- Titrators & burettes
- Viscosity measuring systems
- Capillary viscometers
- High performance pH electrodes
- pH, dissolved oxygen & conductivity meters

[www.si-analytics.com](http://www.si-analytics.com)



Since 1963 OI Analytical has been providing innovative products used for chemical analysis and is a key supplier of sample preparation and turn-key analytical solutions for testing food products and water for chemical contaminants.

- Total Organic Carbon (TOC)
- Total Organic Compound analysers
- Automated Chemistry analysers
- GC sample preparation
- GC detectors

[www.oico.com](http://www.oico.com)



ebro has been servicing the scientific world with innovative measurement solutions for fifty years, supplying precision thermometers, humidity and temperature dataloggers and more to the medical, and food and beverage industries.

- Precision thermometers
- Food Safety test kits
- Frying oil monitors
- Humidity, vacuum & temperature dataloggers

[www.ebro.com](http://www.ebro.com)



Founded in 1948, YSI develops and manufactures scientific instruments, sensors and systems. The latest version of the 2900 Biochemistry Analyser measures lactate and ethanol as an indicator of spoilage in ketchup, salsa and other tomato products in less than 60-seconds. The same technique can be used for fruit processing.

- Biochemistry analysers

[www.ysi.com](http://www.ysi.com)



Since 1945, WTW has provided outstanding leadership in the design and production of superior quality water testing instrumentation world-wide.

- UV/Vis Spectrophotometers
- Photometers
- Turbidity
- Dissolved oxygen

[www.wtw.com](http://www.wtw.com)

## THERE'S A LOT MORE TO XYLEM

Xylem is a leading provider of premium field, online and laboratory instrumentation serving the analytical needs of the surface water, wastewater, ocean & coastal and industrial marketplaces through a number of internationally recognised brands including:

AANDERAA, Bellingham + Stanley, ebro, MJK, OI Analytical, SI Analytics, SonTek, WTW and YSI.

# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

Xylem Analytics' global brands have been leaders in the laboratory instrumentation market for decades, and are relied upon every day across more than 150 countries. Working in true partnership with our clients, we listen, learn and adapt to individual needs, offering deep application expertise built upon our long history of innovation in instruments and services. Our solutions for analysis, measurement and monitoring help enable many of today's modern laboratories and industrial processes, and provide our customers the trusted and high performing solutions they need to succeed.

Xylem Analytics is part of Xylem Inc., a global company focused on solving the world's most challenging and fundamental water issues. As accurate analysis is crucial to the water industry, Xylem Analytics taps its diverse product brands for leadership in that field and beyond, providing the best laboratory and field monitoring instrumentation across a wide variety of industries.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**



## **Xylem Analytics**

Xylem  
Longfield Road  
Tunbridge Wells  
Kent, TN2 3EY  
United Kingdom

Tel: +44 (0) 1892 500400

Fax: +44 (0) 1892 543115

Email: [info.amt.uk@xylem.com](mailto:info.amt.uk@xylem.com)  
[www.xylemanalytics.co.uk](http://www.xylemanalytics.co.uk)

