Because Analytics is our Strength

ELECTROCHEMISTRY | TITRATION | VISCOMETRY

SI Analytics

a xylem brand

Meters

Electrodes and meters:
Complete solutions

Our laboratory meters **Lab** and **ProLab** as well as our handheld meters **Handylab** combined with our electrodes and the unique buffer solutions in ampoules deliver reliable results. They enable and secure the daily routine measurements of pH, ORP, ISE, conductivity and oxygen, from processing the measurement until documentation.

The ProLab meters for instance include a calibration and data report along with the measuring values as well as indicating date and time. Additionally, also the used ID electrode with type and serial number and user is shown. This service is based on the recognition of the ID sensor and user through transponder technology.

The ID electrode also stores the current calibration data. The instruments Lab 870, Lab 970 and all ProLabs always use the individual data of the ID electrode for calculating the pH and conductivity value. Thanks to the electrode recognition it is possible to operate multiple ID electrodes on one instrument or to use one electrode on different meters without having to calibrate for each change.
SI Analytics meters and electrodes therefore make a perfect team.

Meter Lab 870

Meter ProLab 4000

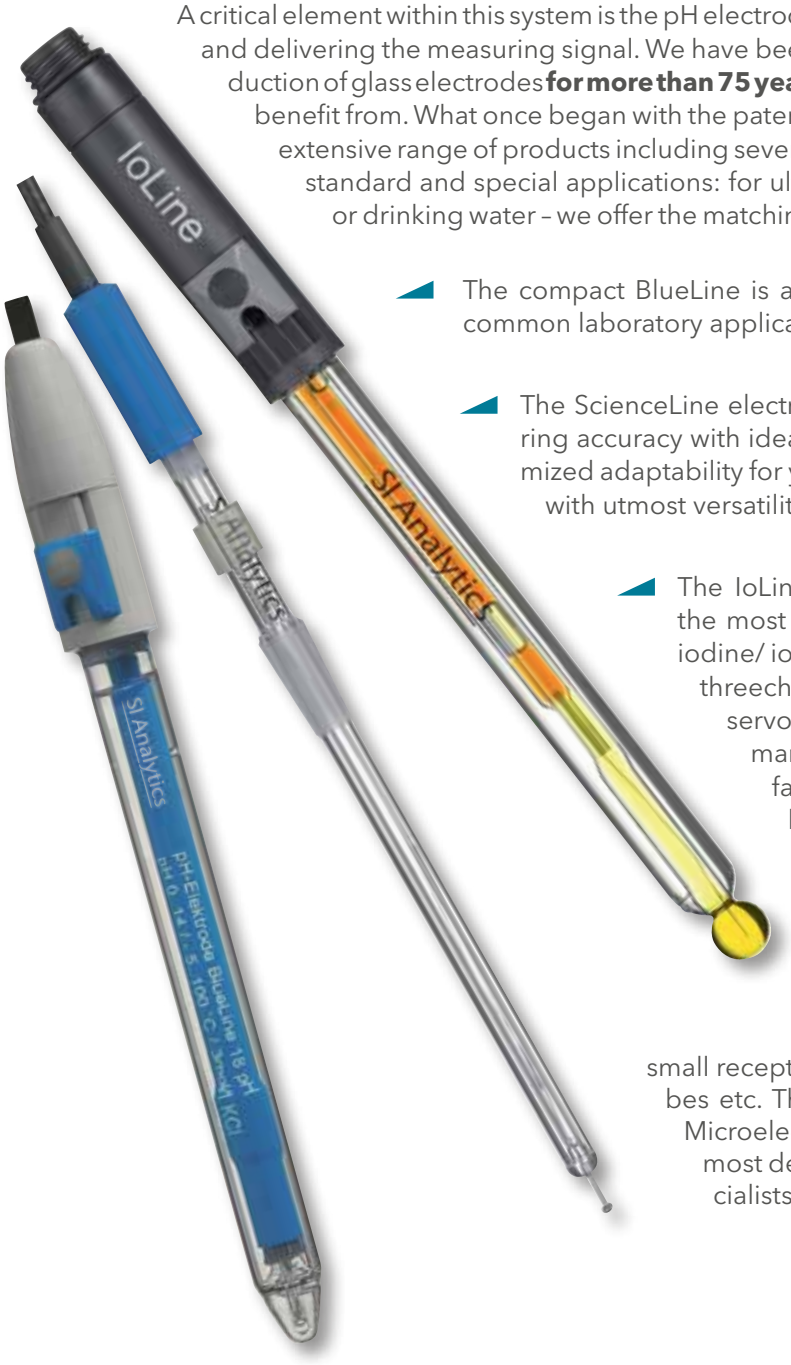
Laboratory Electrodes

Our electrodes –
as diverse as your applications

the right sensor for every application

No pH measurement is comparable with another. Varying compositions, temperatures, conductivities and viscosities of samples as well as measuring conditions sum up to an unlimited number of different applications. The demands for pH measurements can therefore only be fulfilled by a perfectly harmonising system of electrodes, meters and buffer solutions targeted towards the application, such as delivered by us.

A critical element within this system is the pH electrode being in direct contact with the sample and delivering the measuring signal. We have been involved in the development and production of glass electrodes **for more than 75 years** – a knowhow that you as a customer can benefit from. What once began with the patent on the pH electrode, has grown into an extensive range of products including several hundred electrodes designed to meet standard and special applications: for ultrapure water, marmelade, wine, cremes or drinking water – we offer the matching electrode for any possible application.



- The compact BlueLine is a basic series comprising electrodes for common laboratory applications.

- The ScienceLine electrodes offer you not only highest measuring accuracy with ideal endurance of sensors but also a maximized adaptability for your measuring duty. An electrode series with utmost versatility and high quality standard.

- The IoLine pH electrodes are the specialists for the most difficult measuring duties. Their unique iodine/ iodide reference system with the patented threechambers system with iodine storage reservoir in the reference electrode enables remarkably reproducible measuring values, fast response times, stable temperature behaviour and therefore even more accuracy compared to electrodes with conventional Ag/AgCl reference system. Last but not least the electrode is free from disturbing metal ions.

- Measurement often takes place in small receptacles as e.g. vials, small vessels, NMR tubes etc. This demands special specifications. Our Microelectrodes are especially made for these most demanding applications. They are the specialists for life science and pharmacy

TitroLine® Titrators

Dosing, titrating and water analysis according to Karl Fischer can be so easy

The new Titrators of the TitroLine® series

Based on our know-how, we have developed a range of new reliable laboratory instruments for dosing, titrating and Karl Fischer water analysis: The burette **TITRONIC® 500** and the titrators **TitroLine® 6000, 7000, 7500 KF, 7500 KF *trace*** and the universal titrator **TitroLine® 7750**. These instruments combine easy handling with maximum accuracy, and the robustness required for the daily operation in the laboratory.

- For the completely successful laboratory operation we also offer a wide range of accessories perfectly supporting the titrators with all their functions, such as the sample changers TW alpha plus and TW 7400, the burette TITRONIC® 500.
- The new TitroLine® 6000 for example is with its spectrum of benefits the ideal entry into the potentiometric titration and the perfect choice for applications in the field of food, water/ waste water and environmental analysis

Titrator Stand TM 235 KF

Samplechanger TW alpha plus

All-rounder: TitroLine® 7750

The new Titrator TitroLine® 7750 gives even more options

The Titroline® 7750 is the all-rounder for both potentiometric titration and volumetric KF titration. The TitroLine® 7750 combines the features of the potentiometric titrator TitroLine® 7000 and the volumetric Karl Fischer titrator TitroLine® 7500 KF. This makes him the universal titrator for many applications.

SI Analytics Spectrophotometers

UviLine, PRIM und UVIKON

Our spectrometers **UviLine 9100** and **UviLine 9400** are state-of-the-art single beam photometer at VIS or UV-VIS range with excellent price performance ratio. Various accessories (cuvette holder and changer, sipper) can be added for demanding applications.
The product range is completed by a single beam photometer **PRIM** for learners and used for training purposes or for routine measurements in laboratories and factories. For advanced users **UVIKON** convinces as a real, symmetric double-beam photometer, a top level instrument for challenging measurements in research.

UviLine 9100/9400

PRIM

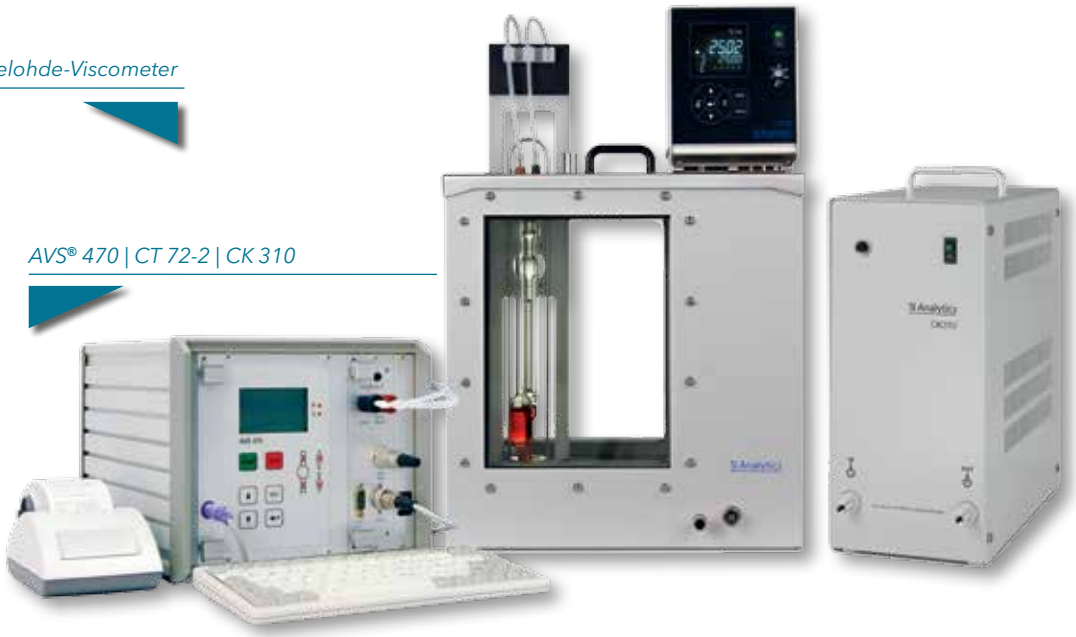
Viscometry

AVS® | ViscoSystem® | Viscometer

Precise capillary viscometry – Innovation from the outset

The **ViscoSystem® AVS® 370** (PC controlled) and the **ViscoSystem® AVS® 470** (as stand alone solution) offer the extraordinary combination of both „pressure" or „suction" in operation. This gives you more flexibility and better adjustment to the liquids to be examined. It enables the optional operation of a Visco Pump II modules for optical liquids or the TC version for opaque and black fluids.
AVS® 370 can be used either as single measuring station or can be extended to form a multiple measuring station with PC-controlled multitasking, operating up to eight sample stations. All results can be quickly evaluated and documented independently of each other.
This provides you unbeatable flexibility.

Ubbelohde-Viscometer



AVS® 470 | CT 72-2 | CK 310

Improved measuring viscosity automatically

The sampling machine AVS Pro III is a fully automatic viscometry measuring station. Even with the high throughput of samples, this station convinces with excellent accuracy and reproducibility – whether operating during the day or unattended during night.

AVS® Pro III

Process Technology

process electrodes, armatures and accessories

The development and production of these high-quality armatures and control systems is based on our experience originating from more then 70 years within the area of liquid analysis. The reliable measuring of pH, ORP, conductivity and D.O. values up to temperature within the process requires individual solutions. Our extensive range of process electrodes includes all applications for measurments in aqueous solutions in the temperature range from –30°C to 140 °C at a pressure up to 12 bar. Furthermore, many of our electrodes are registered according to the ATEX guidelines 94/9/EG. The retractable holders and their control system enable flexible measurings with an ideal positioning of the electrode in the medium. The sensor is only in contact with the medium for the time when the measurement is required. In the meantime the sensor can be cleaned by the patented cleaning chamber and thereafter parked.

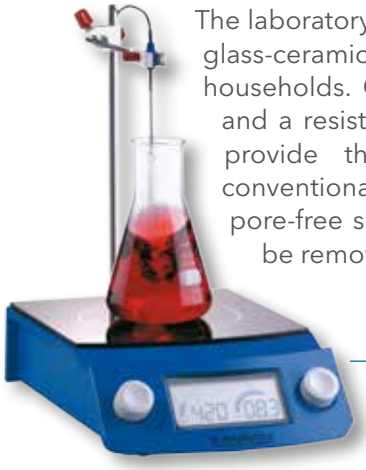
further electrode:

- Our Memosens® program contains pH and redox electrodes. They are compatible to all at the market available measuring devices based on the Memosens® protocol.
- SteamLine electrodes are steam-sterilizable, low-maintenance pH and redox electrodes, also with built-in temperature sensors for applications in biotechnology, food technology and process chemistry

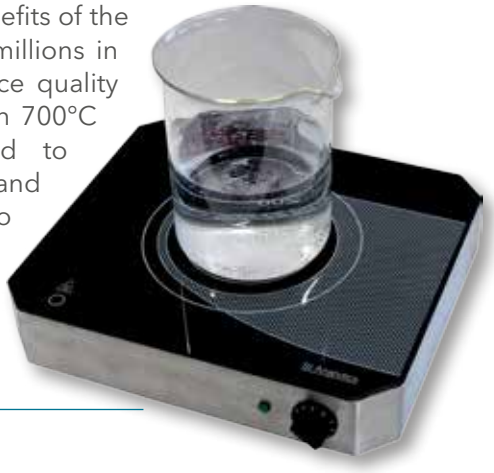
CHEMfit 340

Hotplates and Stirrers

The laboratory hotplates from SI Analytics have the benefits of the glass-ceramic heating surface which has proven by millions in households. Chemical resistance, a high-grade surface quality and a resistance to temperature shock of more than 700°C provide the user maximum benefits compared to conventional hot plate materials. The always plane and pore-free surface enable even most stubborn dirt to be removed.



Stirrer SLR



Hotplate SLK 12

What can Xylem do for you?

We're 12,700 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com

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