

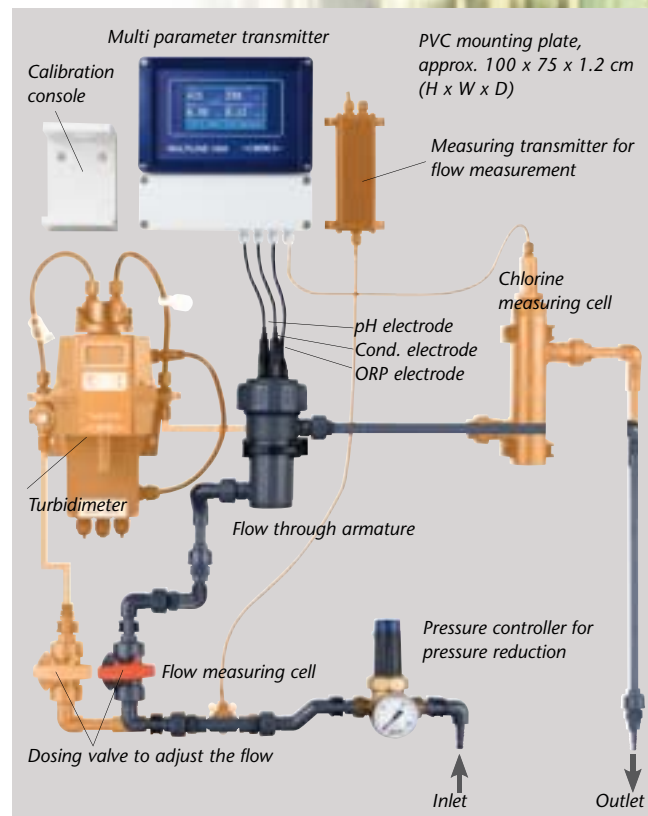
The individual configurable multi-parameter system

MULTILINE 1000

- Intuitive menu navigation
- Pre-mounted panels
- Excellent cost / performance ratio
- No chemicals

As the only complete system, **MULTILINE 1000** offers convenient measuring and output of up to six parameters with a single transmitter.

Ready-to-operate monitoring system convinces through easiest user surface, including the touchscreen with intuitive menu navigation.



Also single parameters – the small family members ...

The parameters pH, redox, C_{ond} , D.O. and chlorine are mounted on a panel and are supplied with a pressure reducer as well as a ball valve for flow-through-regulation. The flow-control switch can be integrated optionally, for giving an alarm signal regarding disrupted flow.

Parameters

pH/redox pH 5000

Conductivity LF 6000

Chlorine (free and total) – electrochemical CI 7010

Chlorine (free and total) – photometric Chlorine 3000

Turbidity Turb 2000 – Turb 2120

Oxygen Oxi 4000



Example: Chlorine measurement CI 7010

Instruments for measuring turbidity for any demand



Turb 2000 – Turb 2120

- Easy calibration
- Integrated bubble trap
- Proven system

The nephelometric turbidity measuring is offered with or without ultrasound cleaning of the flow-through cuvette.

It can also be selected between the measuring acc. DIN 7027 with infrared light and the measuring acc. US EPA 180.1 with white light.

The instruments not only convince through excellent handling, but also through technical specifications:

- Measuring range 0 ... 1000 NTU, accuracy 0.0001 NTU
- RS 485 MODBUS or 4 – 20 mA output adjustable
- Two programmable alarm outputs 250 VAC/2A

Analyzers for free and total chlorine



Chlorine 3000

- Low consumption of reagents
- 30 days maintenance-free operation
- Excellent cost/performance ratio

The analyzer operates photometric with the DPD method acc. US EPA.

The measuring range from 0 – 10 mg/l is extremely wide with an accuracy of 0.01 mg/l. The instrument features 2 alarm outputs, one 4 – 20 mA output as well as one RS 485 MODBUS output.

WTW – Laboratory and Field Instrumentation



Are you interested?

Please order the new WTW Catalog "Laboratory and Field Instrumentation"

VARIO

p. 9

VARIO® pH/Cond

- pH
- Cond



Laboratory Meters inoLab® p. 4

720/730/735/740/750

- pH
- ISE
- D.O.
- Cond
- Multi



Photometers

p. 78

spectroFlex
photoLab® S6/S12
pHotoFlex®

- Photometrical Tests
- wide range of tests available



Field Meters

p. 6

ProfiLine 197i

- pH
- D.O.
- Cond
- Multi



Turbidity Meters

p. 106

Turb 430 / 355 / 550 / 555

- NTU



Handheld Meters

p. 7

315i/330i/340i/350i

- pH
- ISE
- D.O.
- Cond
- Multi



Respirometer OxiTop®

p. 60

OxiTop®/OxiTop® Control

- BOD
- Respiration

soil respiration,
biodegradation
OECD, Biogas
determination,
respiration rate





Environmental Monitoring

e.g. Photometric Measurements with pHotoFlex® e.g.

see pp. 88



Swimming Pools

e.g. pH Control Measurement with pH 315i

see pp. 15



Pharmaceutical Water

e.g. Conductivity Flow Measurement with inoLab® Cond 730

see pp. 38



Food and Beverage Industry

e.g. Turbidity Measurement with Turb 430 + LabStation

see pp. 110



Chemical Water

e.g. pH/Conductivity/ISE Measurement with inoLab® pH/ION/Cond 750

see pp. 52



Cosmetics/Detergents

e.g. pH Measurement with VARIO® pH

see pp. 16



Groundwater

e.g. D.O./pH/Conductivity Measurement with Multi 197i

see pp. 54



Semi-Conductor Industry

e.g. pH/Conductivity Measurement with pH/Cond 340i

see pp. 58



Surface Water

e.g. D.O./pH/Conductivity Measurement with Multi 350i

see pp. 55



Process Technology

e.g. D.O./pH/Conductivity Measurement with Multi 340i

see pp. 58



Depths Profiles, Limnology

e.g. D.O./pH-/Conductivity Profiles with Multi 197i + Depths Armatures

see pp. 54



Laboratory Measurement

e.g. pH Routine Measurement with inoLab® pH 720

see pp. 12



Biotechnology (not autoclavable)

e.g. D.O./pH/Conductivity Measurement with Multi 350i

see pp. 55



Waste Water Treatment Plant: Aeration Basin

e.g. D.O. Control Measurement with Oxi 330i

see pp. 34



BOD Measurement

e.g. Dilution BOD with Analysis Program: inoLab® BSB/BOD 740; easy Self-Check Measurement with OxiTop®

see pp. 62



Biodegradation according to OECD

OECD 301: Determination with OxiTop® Control

see pp. 74



Fish Farming

e.g. D.O. Measurement with Oxi 315i and DurOx® incl. Protection Cap

see pp. 33



Wastewater: COD

e.g. COD Determination in Wastewater with photoLab® S12

see pp. 86



Company highlights	
1945	Company founded by <i>Dr. Karl E. Slevogt</i>
1948	Renamed to <i>Wissenschaftlich-Technische-Werkstätten (WTW)</i>
1954	Introduction of first WTW pH meter
1965	Introduction of first WTW oxygen meter
1976	Bavarian State Award for the Combibox compact multi-parameter system
1982	Introduction of the first zero-current-free (stable zero point) oxygen sensor for field measurements in the world
1983	Start of WTW's on-line measuring technology program
1986	First company to offer a 3-electrode oxygen sensor (TriOxmatic®) with automatic calibration on air (OxiCal®)
1987	First company to offer a 4-electrode conductivity sensor (TetraCon®) for portable water analysis
1993	First manufacturer of D.O., pH and conductivity measuring systems to be certified to ISO 9001
1995	<ul style="list-style-type: none"> • Introduction of the mercury-free OxiTop® system for manometric BOD determination • First company to offer monitors with built-in lightning protection
1997	New photoLab® laboratory photometers combine precision with outstanding ease of use
1998	<ul style="list-style-type: none"> • Introduction of the PurCon® sample preparation system as a replacement for conventional filtration systems • First WTW spectrophotometer
1999	"Innovations that make sense": the new laboratory instruments of the inoLab® family with their 3 function levels set new standards for the analytical measurement of pH, oxygen, conductivity and temperature as well as for ISE and multi-parameter measurements
2000	Introduction of TresCon® – the modular analytical system for the continuous measurement of ammonium, nitrite, nitrate, phosphate
2001	<ul style="list-style-type: none"> • IQ SENSOR NET – the multi-parameter measuring system offers unlimited possibilities for on-line measurements • The new VisoTurb® and ViSolid® turbidity and solid sensors with their revolutionary ultrasonic keeping clean system give "low-maintenance" a completely new meaning

About us

There are not many companies around that can look back on 60 successful years. WTW is such a company, and one of the secrets of its enduring success is undoubtedly the permanent strive for top performance in the development and production of water analysis instruments. We are driven by our goal to offer complete solutions to make our customers work easier.



Sean Donnelly,
CEO WTW GmbH

"To make good things even better" is one of the most difficult tasks one could imagine, but we believe there are always opportunities for improvement. This remains an important part of the WTW strategy and in 2008 we are pleased to be able to offer our customers new and innovative products.

On-line Instrumentation

The IQ family has experienced growth: The terminal/controller MIQ/TC 2020 XT is the new extremely high-performance core of each IQ SENSOR NET system 2020. The integrated USB interface facilitates a considerably faster data exchange using a USB memory stick or connecting directly to an external system. The dual-processor function being integrated with every MIQ/TC 2020 XT increases the system stability and therefore also the availability of the entire system. The new 182 XT-4 system is the economic solution for up to 4 sensors, perfectly suitable for central measuring points, e.g. locations with multiple parameters being measured.

The IQ SENSOR NET system is therefore the most flexible, digital based system providing from 1 up to 20 measuring points suited for conventional instrumentation with analog outputs as well as for field bus instrumentation. The innovative digital sensors in this system represent the state of the art in process measuring systems. For the measuring and control of wastewater the world's most complete line of pH/ORP, D.O., Conductivity, Nitrogen, Carbon, Phosphate and unique self cleaning Turbidity instrumentation as well as comprehensive accessories are available.

The dependability, reliability, and versatility of WTW field proven Ammonia, Phosphate, Nitrite and Nitrate Analyzers, probes, and pH, ORP, D.O., and Conductivity systems and meters have established WTW products as industry standards world-wide.

Laboratory & Field Instrumentation

Offering the world's most complete line of pH/ORP, D.O./BOD/Respirometry and Conductivity Instruments, Turbidity Meters, Photometers with reagents, WTW systems range from rugged waterproof, hand-held, and portable field meters to an integrated line of laboratory instruments, supplies and accessories that include the inoLab™ systems and a wide range of technically advanced Multi-parameter instruments that represent the state-of-the-art in measurement systems.

For example, the Multi 350i handheld instrument offers pH, conductivity, D.O. and temperature measuring in one handheld, waterproof instrument featuring a compact multi-parameter sensor.

WTW offers high-quality technology for optical systems with the new spectroFlex series (spectrophotometers for VIS and UV/VIS range).



WTW has built a solid reputation in its more than 60 years history by providing "best in class" products with unparalleled customer and technical support. WTW strives to deliver solutions to

our customers measuring problems. Our Customer Care Centers are dedicated to ensuring each customer's individual success. WTW's extensive applications library coupled with knowledgeable applications specialist provides for rapid resolution to technical challenges.

With support facilities around the globe, the WTW manufacturing center, located just south of Munich, Germany, delivers quality technical instrumentation with continuous support. We are proud to present our product offering to you and look forward to serving your needs.

„Made in Germany“



Company highlights

2002	<ul style="list-style-type: none"> • AmmoLyt® 700 IQ enables reliable On-line "in-situ" measurement of Ammonium • PurCon® IS: Sample Preparation – directly without pump
2003	<ul style="list-style-type: none"> • NitraLyt® 700 IQ is a perfect supplementary nutrient parameter (Nitrate) for On-line "in-situ" measurement
2004	<ul style="list-style-type: none"> • Multi-parameter handheld meter Multi 350i represents state-of the art in field applications • NitraVis®, CarboVis® and NiCaVis® – spectral "in-situ" On-line sensors for combined Nitrate, Carbon and TSS measurement providing new solutions for waste water control
2005	<ul style="list-style-type: none"> • Portable photometers and turbidity meters for universal applications: pHotoFlex®/pHotoFlex® Turb Turb 430 IR • IQ SENSOR NET System 182 compact 2 channel transmitter as a supplement to the IQ SENSOR NET family • ECDO DO-Sensors Best for DO online measurement
2006	<ul style="list-style-type: none"> • VARiON® ammonium and nitrate multisensor with automatic compensation of interference ions
2007	<ul style="list-style-type: none"> • The new optical D.O. sensor FDO® 700 IQ completes the WTW portfolio for on-line D.O. measuring • The new spectrophotometers of the spectroFlex series combine systematic and spectral analysis with well proven quality assurance AQA.
2008	<ul style="list-style-type: none"> • The IQ SENSOR NET system keep on developing: • New terminal/controller T 2020 XT with USB and dual-processor function • System 184 XT-4: perfect for up to 4 sensors • IQ-LabLink joins on-line measuring with laboratory calibration



Contact Addresses

Looking for your local contact?

Here you can find your "local WTW":

contact addresses, representatives, distributors... Click!



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Information Request

Please send me the following information

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Notes section with multiple horizontal lines for writing.

General information

1. Special versions of instruments on request.
2. Accessories and spare parts for older models – please make separate inquiry.
3. In order to avoid our customers having to pay a surcharge for small-volume purchases, we supply our consumables in practical minimum ordering quantities.

Technical alterations

The technical description corresponds to the current products. Alterations because of technical improvements are possible.

Illustrations

We draw your attention to the fact that the illustrations are intended to clarify certain points. There may therefore be discrepancies between the illustrations and the written text.

Liability

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