

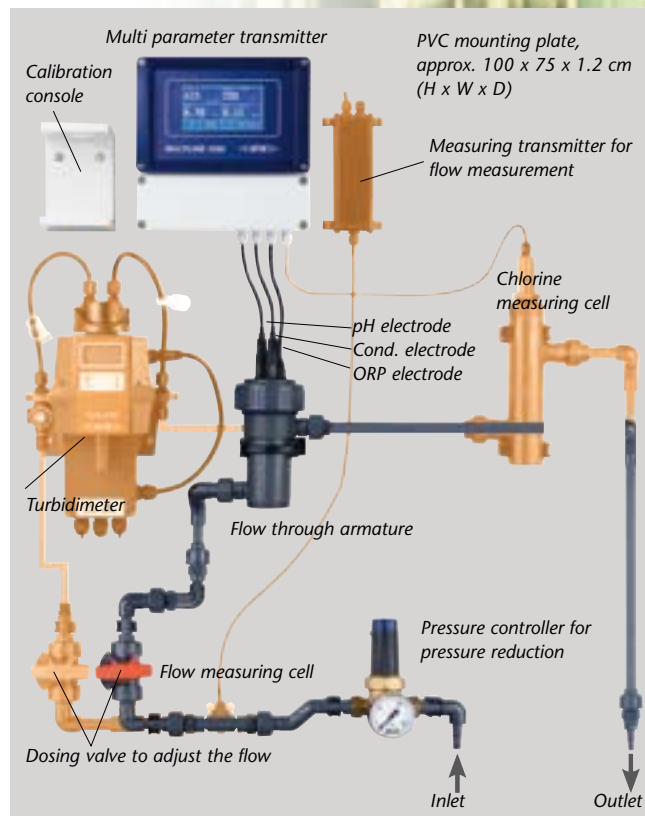
The individual configurable multi-parameter system

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®

VARIO® pH/Cond

- pH
- Cond



Laboratory Meters inoLab®

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



Photometers

photoLab® 6100 VIS/6600 UV-VIS photoLab® S6/S12 pHotoFlex®

- Photometrical Tests
- wide range of tests available*



Field Meters

ProfiLine 1970i

- pH
- D.O.
- Cond
- Multi



Turbidity Meters

Turb® 430 / 355 / 550 / 555

- NTU



Portable Meters

Single Parameter: ProfiLine 3000 Series
Multi-parameter:
MultiLine 3000 Series/
Multi 340i/350i/
3400i*/3500i*

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



* North American version

Respirometer OxiTop®

OxiTop®/OxiTop® Control

- BOD
- Respiration

*soil respiration,
biodegradation
OECD, Biogas
determination,
respiration rate*





Environmental Monitoring

e.g.
Photometric Measurements
with pHotoFlex®



Swimming Pools

e.g.
pH Control Measurement
with ProfiLine pH 3110



Pharmaceutical Water

e.g.
Conductivity Flow
Measurement
with
inoLab® Cond 730/7300*



Food and Beverage Industry

e.g.
Turbidity Measurement
with Turb® 430 + LabStation



Chemical Water

e.g.
pH/Conductivity/
ISE Measurement
with
inoLab® pH/ION/Cond 750/7500*



Food and Beverage Industry

e.g.
pH/D.O. Measurement
with MultiLine® 3420
+ FDO® 925



Ground Water

e.g.
D.O./pH/Conductivity
Measurement
with Multi 350i/3500i*
and MPP 350



Cosmetics/Detergents

e.g.
pH Measurement
with VARIO® pH



Surface Water

e.g.
D.O./pH/Conductivity
Measurement with
MultiLine® 3430
+ FDO® 925



Semi-Conductor Industry

e.g.
pH/Conductivity Measurement
with ProfiLine Cond 3210
+ KLE 325



Depths Profiles, Limnology

e.g.
D.O./pH/ Conductivity
Profiles with Multi 1970i
+ Depth Armatures



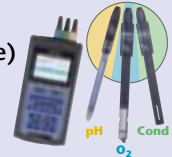
Process Technology

e.g.
D.O./pH/Conductivity
Measurement
with MultiLine® 3430
+ FDO® 925



Biotechnology (not autoclavable)

e.g.
D.O./pH/Conductivity
Measurement
with MultiLine® 3410 + FDO® 925



Wastewater Treatment Plant: Aeration Basin

e.g.
D.O. Control Measurement
with MultiLine® 3420
+ FDO® 925



BOD Measurement

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



Biodegradation according to OECD

OECD 301: Determination
with OxiTop® Control



Fish Farming

e.g.
D.O. Measurement
with ProfiLine Oxi 3205
and DurOx®
incl. Protection Cap



Wastewater: COD

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



Company highlights	
1945	Company founded by Dr. Karl E. Slevogt
1948	Renamed to <i>Wissenschaftlich-Technische-Werkstätten (WTW)</i>
1954	Introduction of first WTW pH meter
1965	Introduction of first WTW dissolved oxygen meter
1976	Bavarian State Award for the Combibox compact multi-parameter system
1982	Introduction of the world's first zero-current-free (stable zero point) dissolved oxygen sensor for field measurements
1983	Start of WTW's online measuring technology program
1986	First company to offer a 3-electrode dissolved 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	The new laboratory instruments of the inoLab® family set new standards for the measurement of pH, D.O., conductivity, ISE and temperature
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 online measurements • The new VisoTurb® and ViSolid® turbidity and solid sensors with their revolutionary ultrasonic keeping clean system give "low-maintenance" a completely new meaning
2002	<ul style="list-style-type: none"> • AmmoLyt® 700 IQ enables reliable Online direct measurement of Ammonium • PurCon® IS: Sample Preparation – directly without pump

About us

Through expertise and innovative technology, WTW continues to demonstrate its commitment to providing our customers with solutions to their most challenging problems.

Over the last 2 years, WTW has developed and launched two new product lines, building upon WTW's proven sensor technology.

WTW has once again taken the opportunity to improve and set new industry standards. This remains a core element of the WTW strategy.



Sean Donnelly,
CEO WTW GmbH

Online Instrumentation

For many years, the IQ SENSOR NET has set the standard for online measuring technology. It is suitable 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. The terminal/controller MIQ/TC 2020 XT is the new and extremely high-performance core of each IQ SENSOR NET system 2020. The dual-processor function integrated with every MIQ/TC 2020 XT increases the system stability, and therefore also the availability of the entire system. The integrated USB interface facilitates a considerably faster data exchange using a USB memory stick or connecting directly to an external 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, digitally-based system providing from 1 to 20 measuring points.

For the measuring and control of wastewater, WTW offers 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.

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

The product range from WTW offers the world's most complete line of pH/ORP, D.O./ BOD/Respirometry and Conductivity Instruments, Turbidity Meters and Photometers including reagents. WTW systems range from rugged waterproof, portable field meters to an integrated line of laboratory instruments and accessories, as well as completely new multi-parameter instruments with state-of-the-art technology.

The new ProfiLine portable single parameter instruments feature new technology and combine simple, easy-to-use features with exceptional durability for extreme conditions. The MultiLine® multi-parameter instruments, with high-resolution graphic display, feature extreme durability for measurements in a variety of applications where parameters can be measured sequentially or simultaneously.

The new digital IDS sensors convert the measuring values directly in the sensor and transfer the digital signals to the measuring instrument, delivering precision and convenience.

WTW offers premium optical technology instruments with the spectrophotometers of the photoLab® 6000 series for the UV and VIS range.

WTW has built a solid reputation in its more than 60 year 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 specialists, provide for rapid resolutions 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	
2003	<i>NitraLyt® 700 IQ is a perfect supplementary nutrient parameter (Nitrate) for Online direct measurement</i>
2004	<ul style="list-style-type: none"> • <i>Multi-parameter portable meter Multi 350i represents state-of-the-art technology in field applications</i> • <i>NitraVis®, CarboVis® and NiCaVis® – spectral "in-situ" Online sensors for Nitrate, Carbon and TSS measurement for wastewater control</i>
2005	<ul style="list-style-type: none"> • <i>Portable photometers and turbidity meters for universal applications: pHotoFlex®/pHotoFlex® Turb Turb 430 IR</i> • <i>IQ SENSOR NET System 182 compact 2 channel transmitter</i>
2006	• <i>VARiON® ammonium and nitrate multisensor with automatic compensation of interference ions</i>
2007	<ul style="list-style-type: none"> • <i>The new optical D.O. sensor FDO® 700 IQ completes the WTW portfolio for online D.O. measuring</i> • <i>The new spectrophotometers of the photoLab® 6000 series combine systematic and spectral analysis with well proven quality assurance AQA.</i>
2008	<p><i>The IQ SENSOR NET system keeps on developing:</i></p> <ul style="list-style-type: none"> • <i>New terminal/controller T 2020 XT with USB and dual-processor function</i> • <i>System 182 XT-4: perfect for up to 4 sensors</i> • <i>IQ-LabLink joins online measuring with laboratory calibration</i>
2009	<i>The new ProfiLine single parameter portable meters feature extreme robustness and outstanding ease of use</i>
2010	<p><i>MultiLine® IDS – new digital world of portable measurement:</i></p> <ul style="list-style-type: none"> • <i>MultiLine® – digital multi-parameter portable meters and</i> • <i>FDO® 925 – optical dissolved oxygen sensor for field and lab</i>



www.WTW.com



Information around the Clock

New Products

WTW presents its complete line of new products, innovative measuring and analytical instruments, helpful accessories, useful system extensions, special sets and much more

24 hours a day.

Applications

WTW can provide you with solutions for all your measurement needs. In addition, you will find tech tips, application notes,

and much more.

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from:

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Information Request

Please send me the following information

Notes:



Catalog Laboratory and Field Instrumentation



pcs.



Catalog On-line Instrumentation



pcs.



*Catalog CD-ROM Laboratory and Field
Instrumentation & On-line Instrumentation*



pcs..



*CD-ROM
Principles of Measuring Technique*



pcs.

Date _____

Signature _____

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

We accept no responsibility for printing errors, writing errors or mistakes in the translation.

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