



T E S T

TOTAL ENGINEERING SOLUTION AND TECHNOLOGIES (PTY) LTD



Company Profile



ABOUT US

Total Engineering Solution and Technologies Pty Ltd is a quality driven company that specializes in scientific equipment and professional services for all laboratory, process and environmental T.E.S.T purposes. Registration Number : 2015 / 151546 / 07



MISSION

Our purpose is to provide unique consultation services that assess the needs of our customers and provide them with suitable, innovative and high-quality laboratory or process solutions.

OUR VALUES - (WHAT IS IMPORTANT TO US)

Customer focus

- Delivering customer satisfaction listening to and exceeding customer expectations
- Adding value for our customers through our services
- Seeking innovative solutions to help our customers achieve their goal

Quality

- Delivering quality in all our work; providing accurate results on time
- Using the best appropriate technology and methods
- Seeking to improve or change our processes for the better.

Integrity

- Behaving ethically and socially responsibly in all our business and financial activities
- Demonstrating respect and inclusivity towards our customers and our staff

COMPANIES
WE
REPRESENT





a xylem brand

WTW is a brand of the Xylem Group, which operates worldwide in its core business of water. WTW is a part of the company division Xylem Analytics. We offer the most comprehensive program of high-quality measuring devices for water analysis in the world. Their reliability, operational safety and versatility have made WTW's products a worldwide industry standard

Laboratory & Field Instrumentation

Meters and measuring systems for electro-chemical, photometric, turbidity measurements as well as for the determination of biological degradability.



photoLab® 7000 Series



pHotoFlex® Series



Turb® 750 Series



Respirometric BOD System OxiTop®-i



Thermoreactors



Multiparameter deep sonde



Turb® 430



Digital IDS portable meters



IDS Sensors for all applications



Portable meters for analog sensors





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Process Instrumentation

WTW offers the most complete series of measuring instrumentation as well as accessories for the measurement and monitoring of water and wastewater.



IQ SENSOR NET



Digital IQ Sensors



Analog Instruments



Chlorine 3017M



Turb PLUS 2000



IQ SENSOR NET Sensor for COD



Sludge level sensor IFL 700 IQ





INDEX OF GENERAL LABORATORY PRODUCTS

- A** Anarobic Work Station
Ashing Furnace
Autoclaves
- B** Bagmixers
Balances
Baths (Water-Oil-Sand)
Bitumen Testing
Blenders
BOD (Biological Oxygen Bond)
- C** Centrifuges
Chemicals
Chemiluminescence
Chillers
Chloride Meters
Circulators
Class I & II Cabinets
Climate and Environmental Chamber
CO2 Incubators
COD (Chemical Oxygen Demand)
Colony Counters
Colorimeters
Concrete Testing Equipment
Conductivity Meters
Cooled Baths
Cooled Incubators
Crucibles
Crushers - Laboratory
Cuvette Cells
- D** Dataloggers
Deionisers
Density Scale
Dewar Flasks
Digestion Equipment
Dispensers / Dosing
Dissolved Oxygen
Distillation
Drying Ovens
Electrodes
- E** Electrophoresis
Environmental Cabinets
Environmental Equipment
Extraction Apparatus
Fat Determination
Filters
Filters and Consumables
Flame Photometers
Flask Shakers
Flocculators
Fluorometers
Freeze Dryer
Freezers
Fume Extraction / Fumehood
Furnace
- G** General Consumables
Glassware Washers
Glove Boxes
Gloves
- H** Grinding Vessels & Media
Growth Chamber
Hand Magnets
Heating Mantles
Homogenisers
Hotplates
Humidity Chambers
Hydrometers
- I** Ice Maker
Incubator
Ion Analysers
- K** Kjeldahl Analysers
- L** Lab Shaker
Laboratory Jacks
Laminar Flows
Low Temperature Incubators
Lumino Meters
- M** Magnetic Stirrer
Magnetic Stirrer with Hotplate
Mantles (Heating)
Materials Testing
Melting Point Apparatus
Micro Kjeldahl Apparatus
Microbiological Testing
Microplate Readers
Microscopes
Mill Spares
Mills Laboratory
Mixers
Moisture Analysis
Mortar & Pestle
Muffle Furnace
Multimantles
Multiparameter Meter
- N** Nitrogen Determ. Apparatus
- O** Oil Baths
Oil Testing Apparatus
Orbital Shakers
Ovens
Overhead Stirrers
Oxygen Meters
- P** Paint Testing Apparatus
PCR
Peristaltic Pumps
pH Meters
Pipette Fillers
Pipettes - Liquid Handling
Polarimeters
Protein Analysis
- Q** Pulp Density Scales
Pulverisers
Pumps
- R** Quickfit Glassware
Reactors
Refractometers
Refrigerator
Repairs & Maintenance
Rifflers
Rotary Evaporators
- S** Salt Spray Chambers
Sampling Equipment
Scales & Balances
Shakers (Platform)
Shaking Waterbaths
Sieve Shakers / Sieves
Soil Testing Equipment
Spectrophotometers
Steam Bath
Sterilizers
Stills / Splitters
Stirrers
Stomachers
Stopwatches
- T** Test Sieve Shakers
Test Tube Rack
Texture Analysis
Thermocouplers
Thermohydrometers
Thermometers
Thermostatic Circ.
Thermostats
Timers
Titators
TOC Tests(Total Organic Carbon)
Trolleys
Tube Furnaces
Turbidity Meters
- U** Ultra-Low Freezers
Ultrasonic Baths
UV Lamps
UV / Visible Spectrophotometers
- V** Vacuum Ovens
Vacuum Pumps
Viscometer
Viscometer Baths
Viscosity Measurement
Vortex Mixer
- W** Washing Machine
Water Analysers
Water Stills
Water Bath
Wax Dispenser
Wrist Action Shakers



BioLogic is the World Leader in Instrumentation for Electrochemistry Applications

BI-POTENTIOSTATS/BI-GALVANOSTATS

- Single PGSTATs (choice of 5 different instruments)
- Bi-Potentiostat/Bi-Galvanostat
- Multichannel PGSTATs (minimal of 5 slots to a maximum of 16 slots. Choice amongst 6 instruments)
- Boosters (from 1A up to 120A)

Applications

- General Electrochemistry
- Nanotechnology
- Corrosion
- Sensor Development
- Batteries/Supercapacitors
- Fuel/Photovoltaic Cells
- Energy Storage



SP300-up to 2 channels



VMP300-Multichannel PGSTAT



Flash Purification Systems

ROUTINE FLASH PURIFICATION:

- Small but mighty
- Maximum flowrate of up to 300 ml/min @ max. 20 bar
- Flow rate accuracy +/- 2% over 20-250ml/min @ 5-16bar
- Quaternary gradient valve - step: +/- 0.1%
- Suitable for a comprehensive range of columns
- 4G to 800G Flash Columns for Routine Purification
- RFID: Universal: non-restrictive system
- load&Go technology: Automatic injection valve for Dryload with pack_ULTRA
- Flow rate accuracy collector: +/- 2%
- 15" touchscreen



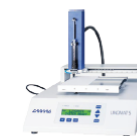
puriFlash® XS 520 Plus



CAMAG is the World Leader in Thin Layer Chromatography (TLC/HPTLC)

SAMPLE APPLICATION

- Nanomat 4
- Automatic TLC Sampler 4 (ATS4)
- Linomat 5



Linomat 5



Automatic TLC Sampler 4 (ATS4)

CHROMATOGRAM DEVELOPMENT

- Glass Chambers
- Horizontal Developing Chambers
- SmartCut Plate Cutter
- Automatic Development Chamber 2 (ADC2)
- Automated Multiple Development (AMD2)
- HPTLC Vario System



Automated Multiple Development (AMD2)



Automatic Development Chamber 2 (ADC2)



Advion has dedicated three decades to serving Scientists

INDUCTIVELY COUPLED PLASMA-MASS SPECTROSCOPY (ICP-MS)

- Solution ICP-MS is the ultimate instrument for multi-element analysis and provides high sensitivity measurement of trace elements from a wide range of matrices including complex samples such as urine, serum, plasma, whole blood and tissue, water, soil, food, beverage and agricultural samples



Solution ICP-MS

COMPACT MASS SPECTROMETER (CMS)

- expression CMS with EIS or APCI
- Atmospheric Solids Analysis Probe (ASAP/CMS)
- inert Atmospheric Solids Analysis Probe (iASAP/CMS)
- Open Port Sampling Interface (OPSI)



inert Atmospheric Solids Analysis Probe (iASAP/CMS)



Atmospheric Solids Analysis Probe



expression CMS



Test, diagnose, and drive proactive microbial control

LuminUltra technology makes the difficult seem simple. Our full suite of products will change the way you think about microbiology – while giving you the tools you need to:

- ✓ Quantify and identify your microbial activity.
- ✓ Understand how microbes are impacting your environment, facility, or system.
- ✓ Improve your system, ultimately saving you time and money.

Our tools use cutting-edge technology to deliver rapid, precise findings that put you back in control and limit costly problems created by out of control microorganisms.



Gold-standard qPCR testing technology

Wastewater testing for COVID-19 is done via qPCR – the same technology used for clinical testing.

The LuminUltra GeneCount[®] qPCR device is rapid, portable, can be used on-site without a lab, and produces results in under 90 minutes.

Additional COVID-19 testing methods are also available for the GeneCount[®] device, including surface, air, and clinical diagnostics.

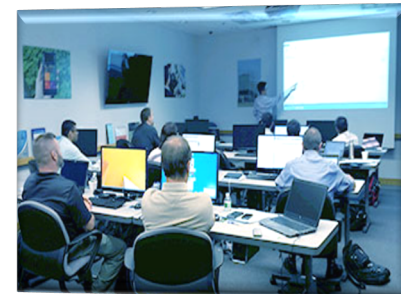
[Ask us](#) for a complete list of industrial assays targeting additional microbes for system monitoring.

We work with you to help identify the best targets for your needs.

Bacteria & Archaea (16S rRNA)	Enterovirus ddPCR
Fungi & Oomycetes (ITS1)	Norovirus (<i>GI, GII</i>)
Total Prokaryotes	Monkeypox
Total Fungi	SARS-CoV-2 (<i>NI, N2, Del69/70, P681R, WT-69, WT-E484, WT-P681</i>)
<i>E. coli</i>	Sewage (<i>BacV4V5-1, BacV6-21</i>)
Iron-reducing Bacteria	Beaver (<i>BeaPol01</i>)
<i>Legionella sp.</i>	Bird (<i>GFD</i>)
Methanogens	Chicken (<i>CP2-9-EPA</i>)
Sulfur-oxidizing Bacteria	Cow (<i>M2-EPA1, M3-EPA2</i>)
Sulfate-reducing Bacteria	Dog (<i>DG3-EPA, BacCan-UCD, DF475F</i>)
Campylobacter ddPCR	Elk / Deer (<i>EF990R</i>)
<i>Enterococcus faecalis</i>	Goose (<i>CGOF1, CGOF2</i>)
General Bacteroidetes	Gull (<i>Gull4</i>)
General <i>Enterococcus</i>	Horse (<i>HoF597F</i>)
<i>E. coli</i> O157:H7	Human (<i>HF183, HF183 ddPCR, HF183/BacR287, HumM2-EPA, HumM2-EPA ddPCR, Bth. BsteriF</i>)
<i>Salmonella</i> ddPCR	Pig (<i>Pig2Bac, Pig2Bac ddPCR</i>)
MRSA (<i>femA, mecA162, mecA99, Nuc, SCN, TetM</i>)	Poultry (<i>CL</i>)
Adenovirus ddPCR	Ruminant (<i>Rum2Bac, BacR</i>)
Rotavirus ddPCR	

OUR SERVICES

- **Site Inspection / Assessments**
- **Servicing and Repairs**
- **Technical Support**
- **Sales Support**
- **Installations**
- **Consulting**
- **Training**



INDUSTRIES WE COVER



- Environmental
 - Clinical & Pathology
 - Academic and Research
 - Water and Wastewater
- Marine
 - Agriculture
 - Automotive
 - Chemical
- Mining
- Pharm and Cosmetics
- Food and Beverage
- Material Testing
- Paint and Liquor



SALES

TECHNICAL SUPPORT

SERVICE

CONSULTATION & TRAINING

CONTACT US

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