

### **Environmental & Industrial**

Product Portfolio



## Thermo Fisher Scientific is your environmental equipment provider

Thermo Fisher Scientific is a leading provider of instruments, supplies, and services for the environmental, industrial, municipal water, marine environment and global scientific markets.

We offer the most up-to-date technologies from the world's leading manufacturers and supply an extensive range of testing, measurement, monitoring, control devices and associated consumables to over 350,000 customers in 150 countries world wide. Through our broad product offering, electronic commerce capabilities, integrated global logistics network and manufacturing facilities, our goal is to ensure you are always engaging or utilising the best possible solutions to make the world healthier, cleaner and safer.

Environmental	3
Water Quality - Laboratory & Field	3-4
Water Quality - Process	4-5
Gas Detection & Industrial Hygiene	5-6
Data Acquisition & Telemetry	6
Industrial Process Equipment	6-7
Environmental Simulation	7
Material Sciences	7
Rental Equipment	7

# Product Portfolio

#### **Driving Innovation & Providing Leading Edge Technologies**

Category	Brand	Applications
Environmental		
Bore and Drilling Supplies	EnviroEquip	Groundwater monitoring bore supplies, groundwater sampling consumables, soil sampling consumables, bore castings, bore caps, direct push tooling, Aqua Twin tube for ground water sampling
Chemical Identification	Ahura Scientific Niton	Field deployed, handheld chemical and elemental heavy metals, precious metals and metal alloy analysis in liquids and solids including soils using Raman or X-ray fluorescence technology
Environmental Monitoring Stations	EnviroEquip	Environmental monitoring stations equipped with solar panel and battery power for data loggers and telemetry equipment - especially suitable for desert and marine environments
Gas Monitoring - Landfill & Biogas	Geotechnical Instruments UK	Portable or fixed landfill, biogas and coal seam gas analysers, ${\rm CH_4, CO_2, O_2, CO}$ & ${\rm H_2S}$
Gas Monitoring - Personal & Fixed	BW by Honeywell Honeywell RAE Systems	Portable and fixed gas detection, environmental, confined space, petrochemical and military
Groundwater Level / Groundwater Monitoring Instruments	Heron Instruments In-Situ Inc Solinst	Groundwater monitoring instrumentation for level, oil-in-water and data logging
Groundwater Pumps	QED Environmental	Air-powered groundwater sampling bladder pumps, groundwater remediation pumps, landfill leachate and methane condensate extraction pneumatic pumps and low profile air-strippers
Hydrography	AANDERAA Sontek	Hydrographic survey, marine and environmental monitoring equipment for remote monitoring in harsh environments such as ports, harbours, marine terminals and offshore platforms including open channel flow measurement, acoustic doppler velocimeters, wave height, near shore current and oil spill tracking
Multi Parameter Water Quality Measurement	Aquaread <sup>TM</sup> Ltd Eutech Instruments In-Situ Inc TPS	Includes a range of multi parameter probes and options for measuring pH, mV, conductivity, turbidity, TDS, temperature, resistivity, salinity and dissolved oxygen (optional built-in GPS with export to Google Maps)
Soil Sampling	AMS	Soil sampling equipment including soil augers, soil core samplers, soil probes, soil gas sampling, agricultural sampling and portable mechanical augers
Water Quality - Laboratory &	k Field	
Colorimeters - Multiparameter	Hach Lovibond® Thermo Scientific Orion WTW	Field analysis of drinking water, wastewater and process water, with up to 90 water quality parameter measurements available
Colorimeters - Single Parameter	Eutech Hach Lovibond® Thermo Scientific Orion	Field analysis of drinking water, wastewater and process water, with an extensive range of US-EPA compliant methods
Conductivity	Eutech Hach Lovibond® Thermo Scientific Orion	Field & laboratory measurement and data logging of conductivity
Disinfection Monitoring	Hach Lovibond® Thermo Scientific Orion	Field & laboratory measurement and data logging of disinfection process
Dissolved Oxygen	Aquaread™ Eutech Hach Lovibond® Thermo Scientific Orion	Field & laboratory measurement and data logging of dissolved oxygen
Electrochemistry - Bench top	Eutech Hach Lovibond® Thermo Scientific Orion	Laboratory analysis of drinking water, wastewater and process water includes a range of multi parameter probes for measuring pH, conductivity, TDS, temperature, resistivity & salinity

#### **Driving Innovation & Providing Leading Edge Technologies**

Category	Brand	Applications
Electrochemistry - Portable	Aquaread™ Eutech Hach Lovibond® Thermo Scientific Orion	Field analysis of drinking water, wastewater and process water includes a range of multi parameter probes for measuring pH, conductivity, TDS, temperature, resistivity & salinity
рН	Eutech Hach Lovibond <sup>®</sup> Thermo Scientific Orion	Measurement and data logging of pH
Reagents	Eutech Hach Lovibond® Thermo Scientific Orion	For use with specific methods that have been developed for each of the brands
Redox	Eutech Thermo Scientific Orion	Portable and on-line measurement of electrical potential of a redox reaction
Spectrophotometers - Bench top	Hach Lovibond® Thermo Scientific Orion WTW	Laboratory analysis of drinking water, wastewater and process water.  Over 240 water quality parameters available including COD, ammonia, aluminium, cadmium, chlorine, copper, iron, nickel, nitrate, nitrogen, phosphorus, sulphate, volatile acids.
Spectrophotometers - Portable	Hach	Field analysis of drinking water, wastewater and process water for COD, ammonia, aluminium, cadmium, chlorine, copper, iron, nickel, nitrate, nitrogen, phosphorus, sulphate, volatile acids
Spectrophotometers - UV/Visible	Hach Thermo Scientific Orion WTW	Lab analysis of drinking water, wastewater and process water. Over 100 different water quality parameters are available.
Standards	Hach Lovibond® Thermo Fisher Scientific	For calibration of instrument parameters including chlorine primary standard, formazin for turbidity, nitrate and phosphate standards
TOC	TriOS	Drinking water, wastewater and pharmaceutical/ high purity water
Turbidimeters - IR Bench top	Hach Lovibond® WTW	Turbidity analysis of drinking water, wastewater and process water in the laboratory
Turbidimeters - IR Portable	Eutech Hach Lovibond® Thermo Scientific Orion	Turbidity analysis of drinking water, wastewater and process water in the field
Turbidimeters - White Light Bench top	Hach WTW	Turbidity analysis of drinking water, wastewater and process water
Turbidimeters - White Light Portable	Hach Thermo Scientific Orion	Turbidity analysis of drinking water, wastewater and process water in the field
UV Transmittance (UVT)	RealTech	Portable measurement of UV percentage transmittance for monitoring UV disinfection and filtration processes
Water Quality - Process		
Algae	TriOS	On-line measurement and data logging of algae
Automatic Water Sampler	MAXX	Outdoor and indoor refrigerated water samplers for dirty and clean water applications
Conductivity	Eutech Thermo Scientific AquaSensors WTW	On-line measurement and data logging of conductivity
Controllers	Honeywell	Digital controller for regulating temperature and other process variables in a variety of applications
Dewatering	DEWA	Cavitation treatment to intensify digestion and increase biogas yield Sludge thickening and dewatering

Category	Brand	Applications
Disinfection Monitoring	Blue-I	Amperometric & colorimetric monitoring of chlorine
	Dosatronics	Amperometric monitoring and dosing of chlorine
	WTW	Amperometric & colorimetric monitoring of chlorine
Dissolved Oxygen	Eutech Thermo Scientific AquaSensors WTW	On-line measurement and data logging of dissolved oxygen
Flow Meters - Closed Pipe	Honeywell	Magnetic, ultrasonic, coriolis and vortex flow meters
Fluoride Monitoring	Thermo Scientific Orion	On-line measurement and data logging of fluoride
Hydrocarbons	TriOS	On-line measurement and data logging of process organics
Multiparameter	Tri0S	On-line measurement and data logging of COD, TOC, nitrate, nitrites, humic acids, oils and other chemicals
Nutrient (NH <sub>3</sub> , NO <sub>3</sub> -, PO <sub>4</sub> -)	LAR WTW	On-line measurement and data logging of process nutrients including $\mathrm{NH_{3'}NO_{3}}$ & $\mathrm{PO_{4}}$
PAH and Oil-in-Water	Thermo Scientific AquaSensors TriOS	On-line measurement and data logging of PAH & oil-in-water
рН	Eutech Thermo Scientific AquaSensors Thermo Scientific Orion WTW	On-line measurement and data logging of pH
Redox/ORP	Eutech Thermo Scientific Orion	Portable and on-line measurement of electrical potential of a redox reaction
Sludge Blanket	WESS	On-line measurement and data logging of sludge levels
TOC	LAR	Wastewater, drinking water and pharmaceutical/high purity water
	TriOS	Waste treatment plants and municipal water analysis using UV spectroscopy
Transmitters	Honeywell	Smart transmitters in a variety of models for measuring and transmitting process, pressure and temperature in 4-20 mA or digital protocol
Turbidity	Thermo Scientific AquaSensors WTW	On-line measurement and data logging of process turbidity
UV Transmittance (UVT)	RealTech	On-line measurement of UV percentage transmittance for monitoring UV disinfection and filtration processes
Gas Detection & Industrial	Hygiene	
Alarm Annunciators	MEDC	Certified push buttons & break glass units Certified beacons, sounders, speakers & status lights
Air Quality Monitors	Thermo Scientific	MIRAN SapphiRe transportable multi-spectrum toxic vapour analyser TVA FID/PID toxic vapour analyser Portable & fixed system real-time particulate monitors
Certified Test Gases	Air Liquide CALGAZ Thermo Fisher Scientific	NATA traceable test gases
Dust Monitors & Sample Pumps	Thermo Scientific	Portable & fixed system real-time particulate monitors
	Casella	Portable dust sample pumps (Australian IS Certified)
Gas Detection - Fixed	Honeywell Analytics (Sieger)	Infrared point & open path hydrocarbon gas detection Catalytic point combustible gas detection Electrochemical point toxic gas detection PID point VOC gas monitors

#### **Driving Innovation & Providing Leading Edge Technologies**

Category	Brand	Applications
Gas Detection - Portable	BW By Honeywell	Portable confined space compliant & single gas monitors
	Gastec Corporation	Gastec toxic gas detection tubes & pumps
	Honeywell Analytics	High specification portable multi-gas monitors
	JEROME®	Portable mercury analysers
	OdaLog®	Mine certified portable multi-gas monitors
	Rae Systems	UltraRae, MiniRae portable PID monitors for VOC's
	Thermo Scientific	Portable FID/PID monitors for remediation
Noise & Heat Stress Monitors	Casella	Portable dosimeters & noise monitors Portable heat stress monitors
Odour Monitoring	OdaLog®	Portable odour monitors & loggers
	Honeywell Analytics (MDA)	Transportable & fixed odour monitors
Data Acquisition & Telemetr	•	
Data logger	OdaLog®	Universal data logger for small spaces such as bore holes, zigbee wireless, GSM communication via concealed antenna
	dataTaker®	General purpose data acquisition, logging, telemetry and processing
	Memsic	Wireless network systems
Environmental Monitoring Stations	EnviroEquip	Environmental and weather monitoring stations equipped with solar panel and battery power for data loggers and telemetry equipment
Industrial Process Equipmer	nt	
Calibration Equipment	GE Druck	Process instrument calibrators for pressure, temperature, pulse, frequency and electrical measure Air data test sets (for calibration of Pitot/static on aircraft)
	The Modal Shop	Vibration, pressure and microphone calibration systems
Environmental	Paroscientific	High accuracy pressure transducers and weather systems
Flow	GE Panametrics	Ultrasonics flow measurement
	GE Rheonik	Coriolis mass flow measurement
Process Sensors	GE Druck	Pressure and level sensors and transmitters
	MTS Sensors	Displacement and level transducers
	GE Panametrics	Multivariable, moisture and oxygen sensors
	GE Rheonik	Moisture
	GE Telaire	CO <sub>2</sub> measurement
	GE General Eastern	Relative Humidity, trace moisture and humidity measurement
	GE Protimeter	Handheld moisture measurement
	GE Novasensor	Pressure MEMS sensors
	Thermo Scientific	Flow computers

Crystal Instruments Head Acoustics Head Acoustics Larson Davis LDS Memsic PCB GE Bently Nevada GE Remote Visual Inspection Measurements Group PCB	Sound and vibration acquisition and FFT analysis  Sound and vibration, sound quality and acoustics testing systems  Telecommunications voice quality and acoustics testing systems  Sound level meters  Vibration tables and controllers  DC accelerometers, FOG 6-Axis inertial measurement units and wireless network systems  Accelerometers, force sensors, load cells, microphones, pressure transducers,  Vibration sensors, monitoring and analysis systems  Borescopes, fiberscopes and video borescopes  Strain gauge measurement and analysis  Load cells
Head Acoustics Larson Davis LDS Memsic PCB GE Bently Nevada GE Remote Visual Inspection Measurements Group PCB	Telecommunications voice quality and acoustics testing systems  Sound level meters  Vibration tables and controllers  DC accelerometers, FOG 6-Axis inertial measurement units and wireless network systems  Accelerometers, force sensors, load cells, microphones, pressure transducers,  Vibration sensors, monitoring and analysis systems  Borescopes, fiberscopes and video borescopes  Strain gauge measurement and analysis
Larson Davis  LDS  Memsic  PCB  GE Bently Nevada  GE Remote Visual Inspection  Measurements Group  PCB	Sound level meters  Vibration tables and controllers  DC accelerometers, FOG 6-Axis inertial measurement units and wireless network systems  Accelerometers, force sensors, load cells, microphones, pressure transducers,  Vibration sensors, monitoring and analysis systems  Borescopes, fiberscopes and video borescopes  Strain gauge measurement and analysis
LDS Memsic  PCB  GE Bently Nevada  GE Remote Visual Inspection  Measurements Group  PCB	Vibration tables and controllers  DC accelerometers, FOG 6-Axis inertial measurement units and wireless network systems  Accelerometers, force sensors, load cells, microphones, pressure transducers,  Vibration sensors, monitoring and analysis systems  Borescopes, fiberscopes and video borescopes  Strain gauge measurement and analysis
Memsic  PCB  GE Bently Nevada  GE Remote Visual Inspection  Measurements Group  PCB	DC accelerometers, FOG 6-Axis inertial measurement units and wireless network systems  Accelerometers, force sensors, load cells, microphones, pressure transducers,  Vibration sensors, monitoring and analysis systems  Borescopes, fiberscopes and video borescopes  Strain gauge measurement and analysis
PCB GE Bently Nevada GE Remote Visual Inspection Measurements Group PCB	network systems  Accelerometers, force sensors, load cells, microphones, pressure transducers,  Vibration sensors, monitoring and analysis systems  Borescopes, fiberscopes and video borescopes  Strain gauge measurement and analysis
GE Bently Nevada  GE Remote Visual Inspection  Measurements Group  PCB	Vibration sensors, monitoring and analysis systems  Borescopes, fiberscopes and video borescopes  Strain gauge measurement and analysis
GE Remote Visual Inspection  Measurements Group  PCB	Borescopes, fiberscopes and video borescopes Strain gauge measurement and analysis
Measurements Group PCB	Strain gauge measurement and analysis
PCB	
	Load cells
A00 (A )	
100 (1 1 : 1)	
ACS (Angelantoni)	Thermostatic and climatic conditioning chambers
Atlas	Accelerated weathering
Conviron	Specialised controlled environments for plant growth
LDS	Vibration tables and controllers
Niton	Field deployed, handheld heavy metals, precious metals and metal alloy analysis using X-ray fluorescence technology
Bellingham & Stanley	Refractometers and polarimeters
Brookfield	Viscosity and rheology measurement
Buehler	Materialographic equipment, consumables and image analysis products
GE NDT	Eddy current and ultrasonic inspection tools and portable hardness testers
Endecotts	Particle size analysis and test sieves
Konica Minolta	Light, color & display
	Service Station Field Kits
wered)	Soil Vapour Monitoring
ng:	Thermal & Environmental Heat Stress Monitors
	Vibration Monitors
	Weather Stations (solar powered)
	Water Quality Instruments including:
	- Colorimeters & Spectrophotometers for multi parameter chemical analysis
0 F	- pH, Conductivity, EC, ORP, Salinity, Temperature & Turbidity
	- Groundwater Level Monitoring  Groundwater Sampling Systems
y:	- Groundwater Sampling Systems
	- Groundwater Purge Pumps
	- Compressors (12 volt and petrol) - Water Samplers
	Atlas Conviron  LDS  Niton  Bellingham & Stanley  Brookfield  Buehler  GE NDT  Endecotts  Konica Minolta



