



# *Integrated, Innovative Environmental Solutions*

**tyco** | Flow Control | **Environmental Systems**

## A Clean Future ... Integrated, Innovative Environmental Solutions

### Tyco Environmental Systems

Tyco Environmental Systems (TES) is a division of Tyco Flow Controls Pacific. TES is a manufacturer and supplier of a suite of products and services totally focused on the provision of pollution solutions to industry and, as importantly, the environment.

Whether air, gas or water, TES has the solutions and the ability to monitor, record, display, decipher and deliver data meaningfully and in the manner most appropriate to the client.

At TES we work closely with our clients to tailor the best solution and not just offer a product. From industrial components and instruments to complete integrated 'turn-key' solutions, TES is positioned to meet all needs.

TES is able to leverage its combined expertise, resources, product ranges and economies of scale to offer innovative and affordable solutions for a diverse range of applications in today's environmentally conscious climate.

TES products are grouped in categories which are highlighted over the following pages. For further information browse the CD attached.

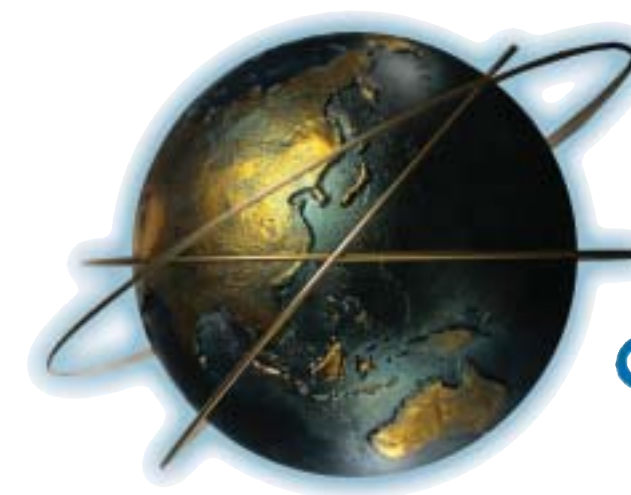
*Tyco Environmental Systems, renowned brands that provide trusted solutions.*

## Renowned Brands ... Global Reach

 **GOYEN**

 **GREENSPAN**  
ANALYTICAL

 **greenspan**



 **COMBINED**  
INSTRUMENT SYSTEMS

 **mecair**





## Innovative Environmental Solutions For Reverse Jet Pulse Dust Collectors

TES has been the global leader in products and solutions for dust collectors since the early 1970s. Through our brands **Goyen** and **Mecair** the **Clean Air Systems** category offers products and expertise focused on the best and most efficient reverse pulse jet filter cleaning solutions for dust collectors.

These products are renowned for their quality, robustness, high performance, innovation and ease of installation. Their technology is acknowledged as market leading, offering tailored solutions for the world's dust collector manufacturers and system users.

TES offers valves built for endurance under the rigours of harsh working conditions. Cleaning system controllers from the most basic to the most sophisticated with industrial network integration, blowtubes and Venturi nozzles, all aimed at optimising the cleaning efficiency of the dust collector.

TES has proprietary software that sizes valves, nozzles and other cleaning system components to ensure the best filter cleaning performance. This allows designers and maintenance engineers to size, build and/or service a dust collector specific to the location and application.



## Flow Control for Process Gases and Liquids

Since 1935 TES has been a leader in the manufacture of industrial and pneumatic valving under the **Goyen** brand. These products are specified by industry for their robustness, performance and durability even in the harshest conditions.

Industries generally rely heavily on compressed air as an essential power source, and when these systems malfunction it can have a devastating effect on the production and profitability of the business.

Experience indicates that the majority of pneumatic equipment failures are caused by contamination of the air supply. It is critical that care be taken to ensure the cleanliness of the air as correct selection and matching of products is vital to the final result.

TES supply a comprehensive range of air preparation equipment and can customise most pneumatic control applications with our robust range of products.

When it is important that valves for liquid and gases function every time, installing a **Goyen** valve ensures that the process has the best possible chance against failure. **Goyen** has a proven track record in delivering products that stand up to the harshest environments.





## Emission Monitoring For Process Gas and Particulate

TES offers a complete range of particulate and gas emission monitoring solutions. With successful installations globally, we understand the specific requirements of industry and are ideally suited to tailor an effective solution for the most challenging applications.

TES supply and manufacture particulate and gas analysers under the **Goyen** brand, ensuring reliability and accuracy of data for process control and environmental monitoring.

The technologies used for monitoring particulate and smoke include opacity, AC Triboelectric and Beta Absorption. For continuous flue gas monitoring the technology used includes ADST, FID and laser, providing a comprehensive portfolio that will ensure flexibility and accuracy.

Complimenting our instruments is a software platform designed for the management, control and reporting of environmental or process data. This software is customised to provide reliability, accuracy and functionality in line with the client's requirements, both process and environmental.

Serviceability and maintenance on the instruments and software further highlight our ability to provide a total solution, one that is reliable, accurate, affordable and ensures effective and meaningful data on a continuous basis.



## Water Quality and Level Monitoring Water Focused Instrumentation

**Greenspan Analytical** manufactures environmental instrumentation for water level monitoring and quality analysis, specifically designed for unattended operation for extended duration and in remote locations.

These instruments are used in a variety of environmental applications such as river and harbour monitoring, borehole monitoring, nutrient analysis, wastewater treatment plants and final discharge monitoring.

Water quality sensors allow the measurement of the physical parameters pH, electrical conductivity/salinity, oxidation reduction potential (ORP), dissolved oxygen, temperature and turbidity.

The sensors offer 4-20mA or SDI-12 outputs or alternatively they are available with on-board data-loggers for event monitoring, which can be connected to a rain gauge. All sensors can be linked via modem to allow data to be delivered direct to your desktop PC.

Water analysers are offered to allow customers to obtain data from remote sites with minimum risk to the asset as it is kept out of the water source. The design of the analysers allow a wider range of parameters to be measured than is available with in-situ sensors.

The Aqualab and Mini-Analyser are designed to perform analysis of physical parameters and/or nutrient parameters, namely; nitrate, phosphate, ammonia or ammonium.

With the winning of the prestigious Australian Design Award, Greenspan Analytical have achieved well-deserved recognition for their innovative designs.



## Process Measurement and UV Disinfection Systems for Liquids

**Combined Instruments** specialise in process measurement, control and disinfection systems. They produce electromagnetic flow meters and ultraviolet disinfection systems.

Proprietary products are complimented with agencies for world renowned companies such as Meineke, Cassella, Socan and McCrometer. This stable of products gives **Combined Instruments** an extensive water flow monitoring range.

The electromagnetic flow meters and mechanical meters are developed specifically to suit the requirements of the irrigation, mining and chemical markets as well as the local water supply authorities.

UV disinfection units treat water to stringent World Health Organisation (WHO) guidelines. There are units for domestic use, which are economic to run, have no moving parts and have minimal cleaning requirements.

The commercial side is catered for by systems designed for the disinfection of secondary effluent. These units feature stainless steel designs and vertical lamps which have the advantage of in-situ cleaning.

Ultrasonic non-contact level instruments, water leak detection devices and data loggers complete this portfolio of products.



## System Integration Specialists

**Greenspan** is a global provider of integrated monitoring solutions that extend over a broad cross-section of applications and regions. With diverse knowledge, expertise and experience Greenspan can advise, design and implement monitoring systems that control and report on applications such as climate conditions, tidal flows, flood warning and emission monitoring.

Continuous research, product development and testing ensures Greenspan stay on the cutting edge of communications and monitoring technology. This results in the provision of reliable, accurate and durable system installations, regardless of the nature and/or remoteness of the site.

Greenspan have a proven track record globally with diverse installations in Australia, throughout Asia, Europe and the Americas. Working with Governments, major utilities, mining companies as well as international funding agencies.

Commercial flexibility can be built into these systems to 'best fit' the needs of the client. A choice of options are available with either a complete 'equipment supply and install' or 'pay as you use', which may negate the constraints of a client's major capital outlay.

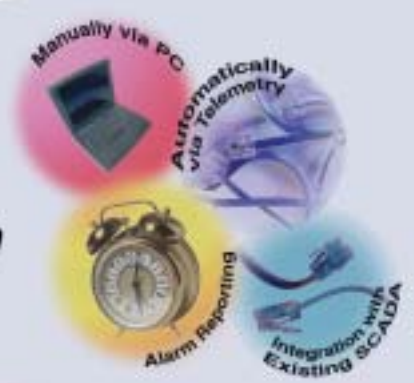
**Greenspan** are about providing the project owners, operators and/or environmental consultancies with reliable cost effective solutions to meet their requirements for baseline design, statutory compliance and operational data.



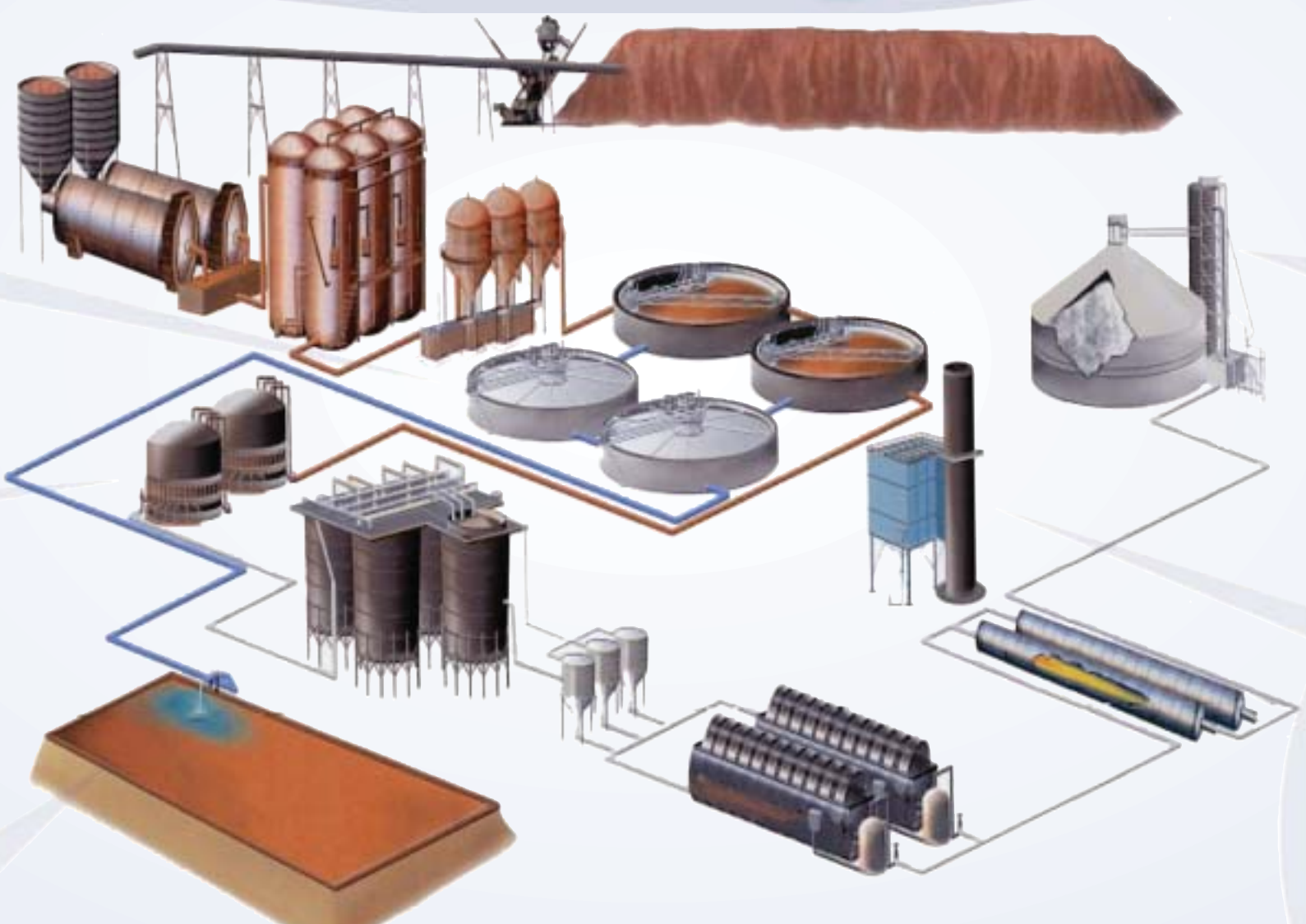
# Meaningful Communication Options ...

... proven products

**Data Collection**



**Telemetry Collection**





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