



## International Chemicals Engineering

Proudly Australian owned and operated since 1992.

APPLICATION	I.C.E. CAPABILITIES & SOLUTIONS
<b>GAS ODORANTS</b>	
Supply	Arkema supply a complete range of gas odorants including Mercaptans, Thiophanes and Sulphides – packaged from 20,000lt ISO, 1050L, 450L & small scale vessels.
Handling & Logistics	Specialised Victorian facility allows safe and environmentally responsible handling and transfer of gas odorants.
Addition & Injection Systems	YZ NJEX odorant injection systems are totally self-contained packages specifically dedicated and only used for gas odorant. LINC, WILLIAMS and MILTON ROY odorant injection pumps utilizing site DCS for monitoring and control are used for customised injection packages
Low flow odorant addition	Custom designed low flow odorant addition such as bypass odorisers.
Odor Detection	Axel Semrau (German) Odour Handy - a hand held instrument for the measurement of odorant concentration in natural gas and LPG.
Mercaptan Odour Control	M.O.N. (mercaptan odour neutraliser) and M.T.W (mercaptan tool wash) are specialised odour eliminators for gas odorant.
<b>ENGINEERING SERVICES</b>	
Commissioning & System Overhauls	A proven track record and the capability to design, construct and commission a large diversity of purpose built turn-key chemical injection and dosing packages.
Preventative Maintenance & Onsite Support	A team of specialised engineers & fully equipped workshop provides the capability for repair, servicing and testing of chemical dosing systems & metering pumps.
Training & Seminars	Commissioning and on-site training for gas odorant handling & dosing systems is provided by experienced I.C.E. staff.
Vessels, Tanks & Bunding	Various sizes up to 235L closed head drums, customised tank and bund systems to suit various applications.
Spill kits & Emergency Response	Spill response kits specific to the gas odorant sector. Offered in three sizes; small, large and catastrophic. We also provide a range of custom designed vacuum systems for fast & effective spill response.
Activated Carbon Filtration	Custom built Activated Carbon Filtration systems specifically designed to meet the requirements of the Gas odorant sector. A range of sizes are offered such as 20L and 200L.
Load Cells	Offering 2 sized load cells & assisting with recommending a range of load cells accessories for accurate measurement & control. Intrinsically Safe options available.
Controllers	Offer a range of conductivity, pH and ORP instruments for use in water treatment applications.
Instrumentation	A wide range of components for system integration such as back pressure valves, pulsation dampeners and flow meters can be supplied.
<b>DOSING SYSTEMS: METERING PUMPS</b>	
Pneumatic	LINC stainless steel high pressure plunger and Teflon bellows styles. WILLIAMS plunger and WILROY hydraulically actuated diaphragm pumps to meet a wide variety of flows and pressures.
Electric	MILTON ROY LMI is among the range of Electric metering pumps we offer.
Electronic/Peristaltic	Etatron - low pressure, low flow rates; self-priming Solenoid, Motor Driven and Peristaltic pumps.
<b>LIQUID LEVEL</b>	
Pneumatic Switches	LINC float control switches, high or low level for liquids and liquid interfaces in stainless steel.
Electric Switches	LINC Internal and external stainless steel rated 1500 - 5000 psi.
Calibration Columns	KENCO - to measure chemical draw down and 200L drum gauges.
Tank Level Gauges	A range of high quality vessel & tank gauges for accurate level readings.



Axel Semrau®



CHEMICAL METERING PUMPS



LEVEL SWITCHES & METERING PUMPS



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