










POINT LEVEL SWITCH








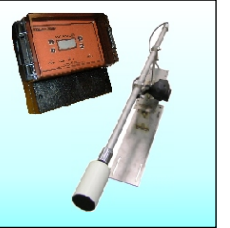
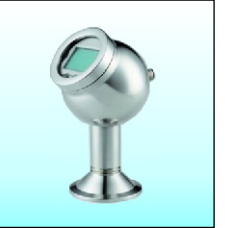
FLOAT	PADDLE	CAPACITANCE	ADMITTANCE	VIBRATING	VIBRATING	VIBRATING	MICROWAVE	MICROWAVE
								
Range: 0-20m / 0-65ft	Range: 0-1.5m / 0-5ft	Range: 0-5m / 0-16ft	Range: 0-5m / 0-16ft	Range: 0-3m / 0-10ft	Range: 0-20m / 0-65ft	Range: 0-4m / 0-13ft	Range: 0-100m / 0-328ft	Range: 0-1.5m / 0-5ft
-20 to +200°C -4 to +392°F	-20 to +200°C -4 to +392°F	-20 to +800°C -4 to +1472°F	-20 to +550°C -4 to +1022°F	-40 to +130°C -40 to +266°F	-20 to +250°C -4 to +482°F	-20 to +150°C -4 to +302°F	-50 to +500°C -58 to +932°F	-10 to +55°C +14 to +131°F
LIQUIDS	SOLIDS	LIQUIDS / SOLIDS	LIQUIDS / SOLIDS	LIQUIDS	SOLIDS	SOLIDS	SOLIDS	SOLIDS
FLOAT RANGE Very low-cost mechanical devices mounted from either the side or top of the tank. Wide range of process connections and body materials for corrosive environments. Simple to install, with single or multiple switch points. Flexible cable and rigid probe mounting options. High temperature up to 200°C. ATEX options for EExd and intrinsically safe requirements.	RP SERIES Low-cost, electro-mechanical switches for solids only. Simple to install from either the top or side of the silo. Corrosion resistant paddle designs. Wide range of process connections and high temperature options. Suitable for powders, flakes, pellets and granules above 500g/litre. Triple shaft seal with a long-life motor and clutch assembly.	ME SERIES Universal switch range for liquids, slurries, pastes, powders and granular material. Simple to install from side or top of vessel. Rigid probe and cable options and high vibration options for flexible mounting. Corrosion resistant and high temp options with ceramic probes. Safety ground level test facility as standard. Wide range of process connections.	MD SERIES Immune to coating on probe so ideal for products such as paint, bitumen and adhesives etc. Universal switch range for liquids, slurries, pastes, powders and granular material. Simple to install from side or top of vessel. Compact design options available. Corrosion-resistant SS probes as standard. High-temperature and wide range of process connection options.	TF & MTF SERIES Operates on virtually any liquid requiring no set-up calibration. No moving parts, unaffected by vapours and surface agitation. Compact design options available with short insertion length. Corrosion resistant, high temperature (130°C) and pressure (40 bar) options as standard with a wide range of process connections and some ATEX options.	DP1 SERIES Ideal for pellets, fine dry powder products such as flour, sugar, sawdust or cement. No moving parts to wear. Sensitivity unaffected by dusts and build-up on tank walls. Corrosion-resistant Stainless Steel rigid probe and rope versions. Flexible mounting from either the top or side of silo, with simple installation. ATEX options for dust in zones 20, 21 & 22.	DP6 SERIES Ideal for powders and granules up to 90g/litre. A cost-effective point switch for smaller vessels and hoppers. Single solid stainless steel rod is vibrated by the piezo-electric element, which is switched when the vibration is damped. Corrosion-resistant Stainless Steel rigid probe and rope versions. Simple installation and low maintenance.	MICROWAVE LEVEL Simple, non-contact, non-intrusive level switch suitable for many solids and powders applications. Utilises continuous, low-power microwaves with a range of up to 100m. A safe replacement for nucleonics that is unhindered by product coating. Typically used for blocked chute detection, point switching and as proximity alarms for reversing vehicles.	MICROSENSE FLOW The Microsense microwave switch provides an effective way of detecting the flow or no flow of a wide range of particulate materials along chutes, pipes and conveyor belts. The flow switch uses a microwave Doppler effect and is non-invasive. Microsense improves plant efficiency, increases productivity and reduces plant down time.

SILO SAFETY


SILO PROTECTION SYSTEMS

Tanker-Delivered Over-Pressurisation Protection
Award-Winning Systems With Ground-Level Testing
POWDERED SOLIDS
SHIELD SILO PROTECTION SYSTEM The most advanced SPS on the market today, defending against over-pressurisation of powder silos during pneumatic filling. Pressure build-up can rupture silos and eject filter housings so must be monitored and controlled to ensure safety. Compact, all-in-one design. Exceeds safety guidelines from the Mineral Products Association (MPA). Pioneering Ground Level Test (GLT) system: a single button push on the control panel fully tests essential safety equipment - pressure relief valve, custom pressure sensor, and high-level alarm - before allowing the inlet valve to open, all within six seconds. Control panel also records and time/date stamps pressure incidents and PRV lifts to enable preventative maintenance.

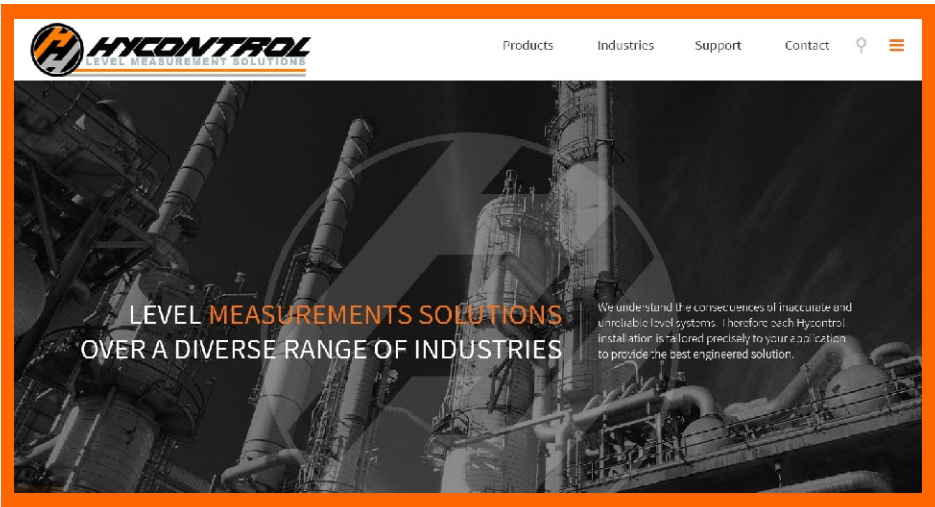
CONTINUOUS LEVEL MEASUREMENT

ULTRASONIC	ULTRASONIC	RADAR	RADAR	BYPASS	TDR	FOAM	SONAR	HYDROSTATIC
								
Range: 0-60m / 0-196ft	Range: 0-10m / 0-32ft	Range: 0-30m / 0-98ft	Range: 0-100m / 0-328ft	Range: 0-5m / 0-16ft	Range: 0-35m / 0-114ft	Range: 0-4m / 0-13ft	Range: 0-30m / 0-98ft	Pressure: 0-100bar / 0-1450psi
-40 to +70°C -40 to +158°F	-40 to +90°C -40 to +194°F	-20 to +250°C -4 to +482°F	-20 to +200°C -4 to +392°F	-200 to +300°C -328 to +572°F	-20 to +300°C -4 to +572°F	+1 to +150°C +39 to +302°F	-40 to +110°C -40 to +230°F	-20 to +250°C -4 to +482°F
LIQUIDS / SOLIDS	LIQUIDS / SOLIDS	LIQUIDS	LIQUIDS / SOLIDS	LIQUIDS	LIQUIDS / SOLIDS	LIQUIDS	LIQUIDS	LIQUIDS
MICROFLEX D/LR 2, 3 or 4-wire 24vDC level transmitters. Budget-sensitive, non-contact technology. Simple to install with very compact design and corrosion-resistant body materials. ATEX options available for IS-certified areas. Wide range of outputs including relay, 4-20mA, HART, Profibus, and Modbus. Very low power options available for remote battery applications.	MINIFLEX / REFLEX LR Multi-functional instrument for level, flow, differential, and pump control. Programmable for level, flow, volume, distance and pump control. Low-frequency transmission allows for accuracy in even dusty applications. Remote diagnostics tools options over GSM connection. ATEX options also available. Corrosion resistant range of transducers.	VG5 SERIES Transmits high frequency FMCW signal of a nominal 10GHz, increasing linearly during measurement (frequency sweep). Wave horn antenna provides a more focussed and reliable signal. Can map complex internal tank structures for precision measurement. Available with a wide range of connections and outputs. SIL2 approval available for critical applications.	VG7 / VG8 SERIES Emits 80GHz frequency with accuracy up to 3mm. Two-wire radar level transmitters unaffected by changes in pressure, temperature, vapours and foam. ATEX options available with EExd & EExia approvals. Ideal for corrosive atmospheres and pressures up to 100bar. Optional drop-shaped antenna resists product build-up or condensation.	REFLEX BYPASS R/T Ideal replacement for displacer with high accuracy of 1mm. Reliable measurement even with an agitated surface. Ideal for tanks with complex internal structures. Low maintenance as no moving parts. Option for either TDR or radar as primary measuring device. Wide variety of flanges and designs is available to meet most applications.	VF SERIES The VF Series TDR is ideal for liquids, powders and granules, unaffected by pressure, temperature, viscosity, vacuum, foam, dust, coating or changes in dielectric constant. Provides high-accuracy measurement via a Stainless Steel conductor. Interface measurement and ATEX options. Wide variety of process connections. HART output available.	SURESENSE™ Monitors and controls foam and liquid levels at up to three points on a single probe. High accuracy, proportional anti-foam dosing control. Pre-programmed for a range of common applications. Connect up to three probes to one controller. Probes immune to fouling. Benefits include reductions in anti-foam usage, increased yields and pollution prevention.	SONARFLEX Sludge blanket and interface level measurement for demanding applications in water & waste, mining and industrial applications. Has an integrated automatic cleaning mechanism on the sonar transducer and can simultaneously track multiple interface levels of RAS, FLOC and FLUFF. ATEX EExia & EExm options are available.	HYC-XACT i A range of precision pressure transmitters for liquid tank level measurement only. Constructed from 316L providing high accuracy of up to 0.05%. A wide range of process connections are available to suit most applications. Option for integral LCD display with push button calibration behind a laminated safety glass.

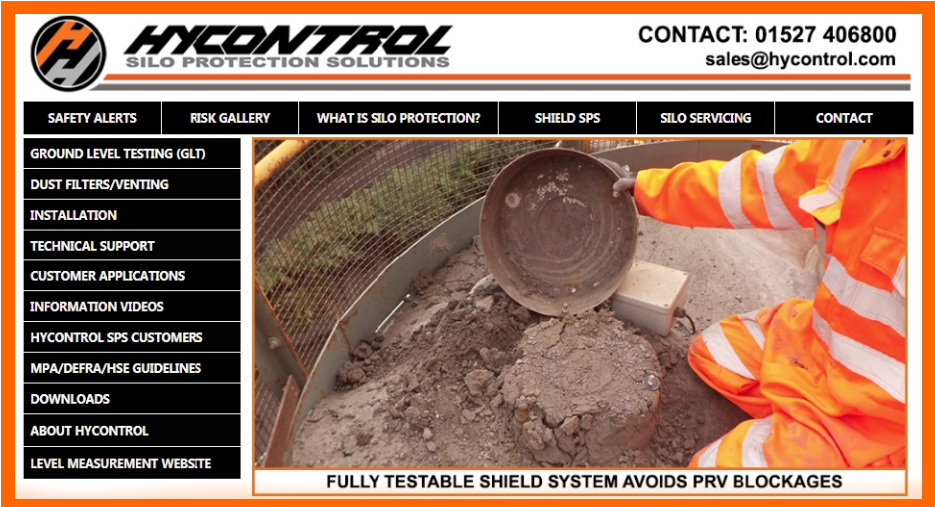
OVERFILL SAFETY

LEVEL MONITOR SAFETY SYSTEMS

Customised Overspill and Overfill Prevention
Award-Winning Systems
OILS / BITUMEN / CHEMICALS
OVERSPILL PREVENTION Customised systems tailored to meet the specific requirements of your site. Hycontrol have won numerous industry awards for designing and manufacturing systems to improve site health & safety, reduce waste and improve efficiency. Typical system features include level gauges, high level and ultimate high level alarms, LED traffic lights and ground level test facilities. Hycontrol bitumen systems are fully compliant with current Refined Bitumen Association (RBA) standards. ATEX options are also available if required. Hycontrol not only manufacture their systems, but also install, support and service them, providing a turn-key solution for the lifetime of the product. Few other suppliers can offer this full service.

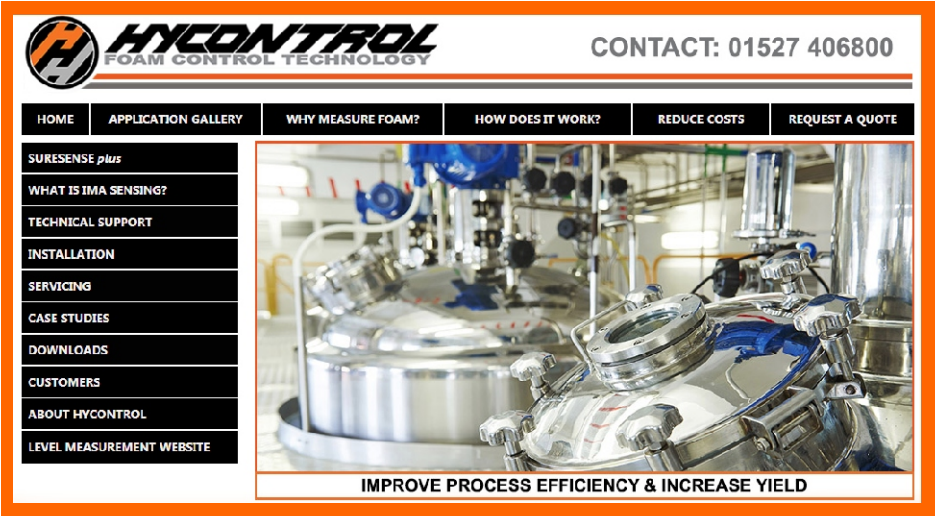
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HYCONTROL
LEVEL MEASUREMENT SOLUTIONS