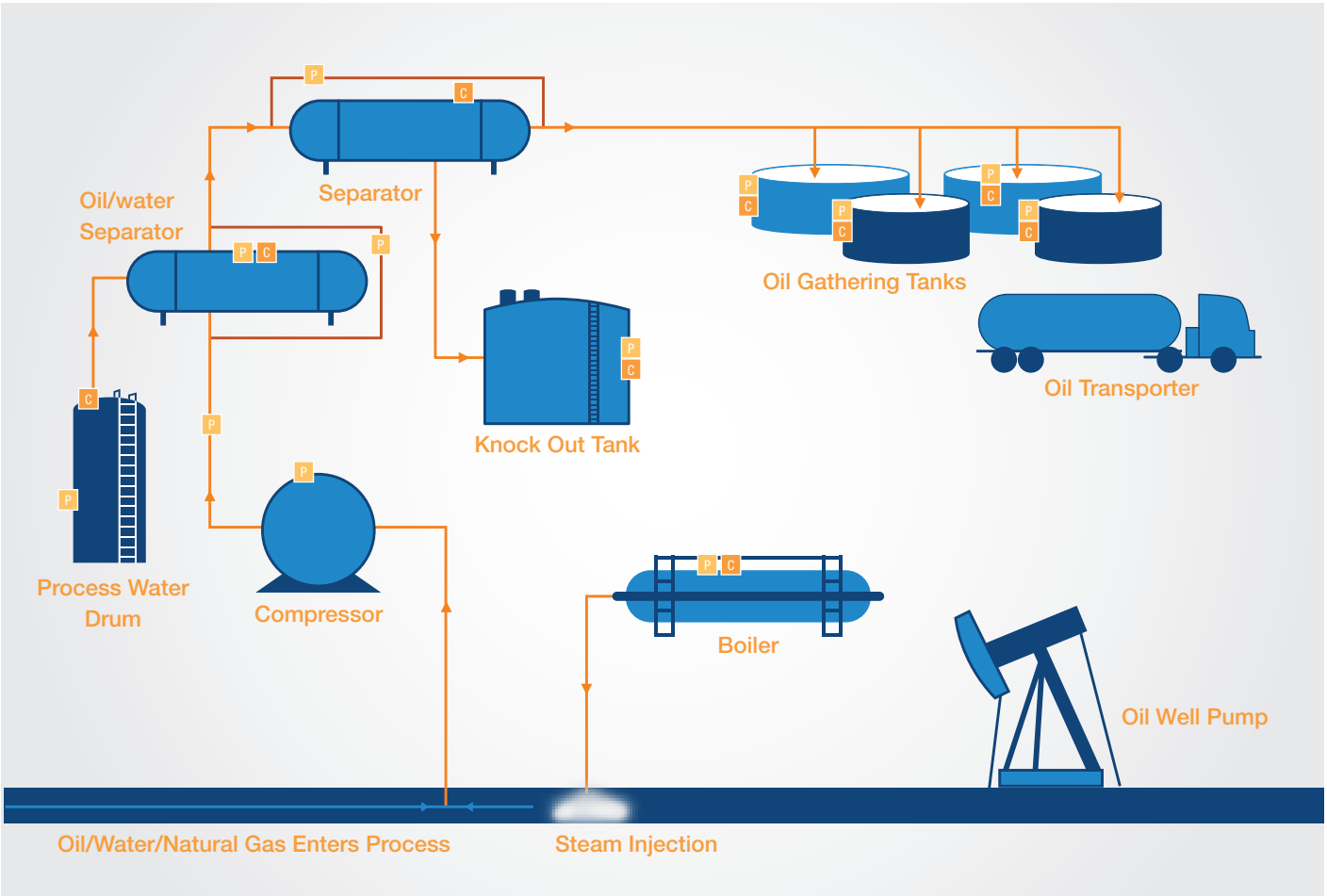
Application Description AD/Onshore-EN Rev. B

Oil & gas production - onshore
Industry specific process diagram

With over 35 years of experience in oil and gas production level instrumentation, ABB has solutions to the most challenging level applications. Both contact and non-contact technologies are employed in oil and gas production for on and offshore level measurement. These include guided wave radar transmitters, magnetic level gauges, magnetostrictive level transmitters, laser transmitters and a variety of point level technologies. Accurate level measurement is critical in the Oil & Gas production field. ABB has the knowledge and products to keep production on line and safe for personnel and the environment.



Legend

P Point Level measurement

C Continuous Level measurement

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P Point Level Measurement

Product		Features
	RS85 Vibrating Level Switch	– Detects at variety of liquid levels – Special alloy sensors – Field selectable parameters with external magnet or internal push buttons (fail safe, density) – Extended probe lengths to 120” (3048 mm)
	MS50 Multi-Point Level Switch	– Up to six SPDT switches per unit (NO and NC contacts) – Interface level capability – Trip points adjustable without removing vessel from service – Vibration resistant (Multi-float option only) – Suitable for high temperature applications – 316L stainless steel wetted parts standard
	TX Thermal Dispersion Switch	– One switch can be configured for either gas or liquid flow, liquid level, interface level or temperature – Explosion proof, no moving parts – Temperature range of -320ºF to 900ºF (-195ºC to 482ºC) – Pressure to 10,000 psig (689 bar) – 316L stainless steel all welded construction standard
	LS Series Mechanical Level Switch	– One step switch point adjustment – Precision fabricated floats and displacers – Compact switching mechanism eliminates bulky housing and traditional bias springs – Easily retrofitted to most competitor models
	MS41 Switch	– Use with KM26 Magnetic Level Gauge or LS Cage Level Switch – Hazardous area rating: FM approved; CSA and ATEX Certified – Enclosure: stainless steel, dual compartment, hermetically sealed, explosion-proof; NEMA 4x/IP56; ½” FNPT – Switching mechanism: cam driven, snap-action; AC: 10 amp DC: 2.6 amp; min process temp -320°F (-195°C) with option and max process temp 300°F (149°C), 1000°F (538°C) with IP option; 15/16”, DPDT – For high-temperature, vibration and high-corrosive applications

C Continuous Level Measurement

Product		Features
	MT5000/MT5100 Guided Wave Radar Transmitters	– Radar signals travel along the waveguide - eliminates false echoes – High signal strength with low power consumption – The MT5000 provides reliable level measurement over varied process conditions. – Distance 2 to 217 ft. (609 mm to 66.1 m) – True level measurement regardless of temperature and pressure changes – SIL 2/3 Certified to IEC 61508
	AT100 Magnetostrictive Level Transmitters	– High accuracy: .01% of full scale – Loop powered to 75 ft. (22.86 m) probe length – Total and/or interface level measurement – Pressure to 2400 psig (165.47 barg), Std. 1800 psig (124.1 bar) – Temperature range: -320 to 800°F (-196 to 427°C) – SIL 2/3 Certified to IEC 61508
	KM26 Magnetic Level Gauge with AT200 Magnetostrictive Level Transmitter	– Highly visible level indication with no process fluid in contact with the glass – All construction in-house by code certified welders – Float designed and weighted for maximum accuracy – Transmitter and switch options, which can be installed, adjusted and maintained with no process interruption – Safe for corrosive, flammable, toxic, high temperature and high pressure applications – SIL 2/3 Certified to IEC 61508
	MagWave Dual Chamber Level System	– Redundant level measurement: Guided Wave Radar Transmitters and Magnetostrictive Transmitters with magnetic level gauge – Low cost of ownership – 5 year warranty – Highly visible indication – Variety of chamber materials – Multiple chamber styles to your custom requirements – Pressure to 5000 psi (344 bar)
	AT600 Magnetostrictive Level Transmitter	– High accuracy: .02% of full scale – Loop powered to 16 ft. (4.9 m) probe length – Total and/or interface level measurement – Temperature range: -49 to 500°F (-40 to 260°C) – Economical measurement solution
	AT500 Magnetostrictive Level Transmitter	– Can be used in mud pits and other utility applications – High resolution 4-20 mA output - no signal conditioner required – Zero and span setpoints adjust digitally – Pressures to 1800 psig (124.1 barg) – Calibrates without opening enclosure – Economical measurement solution
	AT200 as a Valve Positioner	– High accuracy .01 % of full scale with patented magnetostrictive sensing technology – Microprocessor-based – Never requires recalibration – Field replaceable module

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