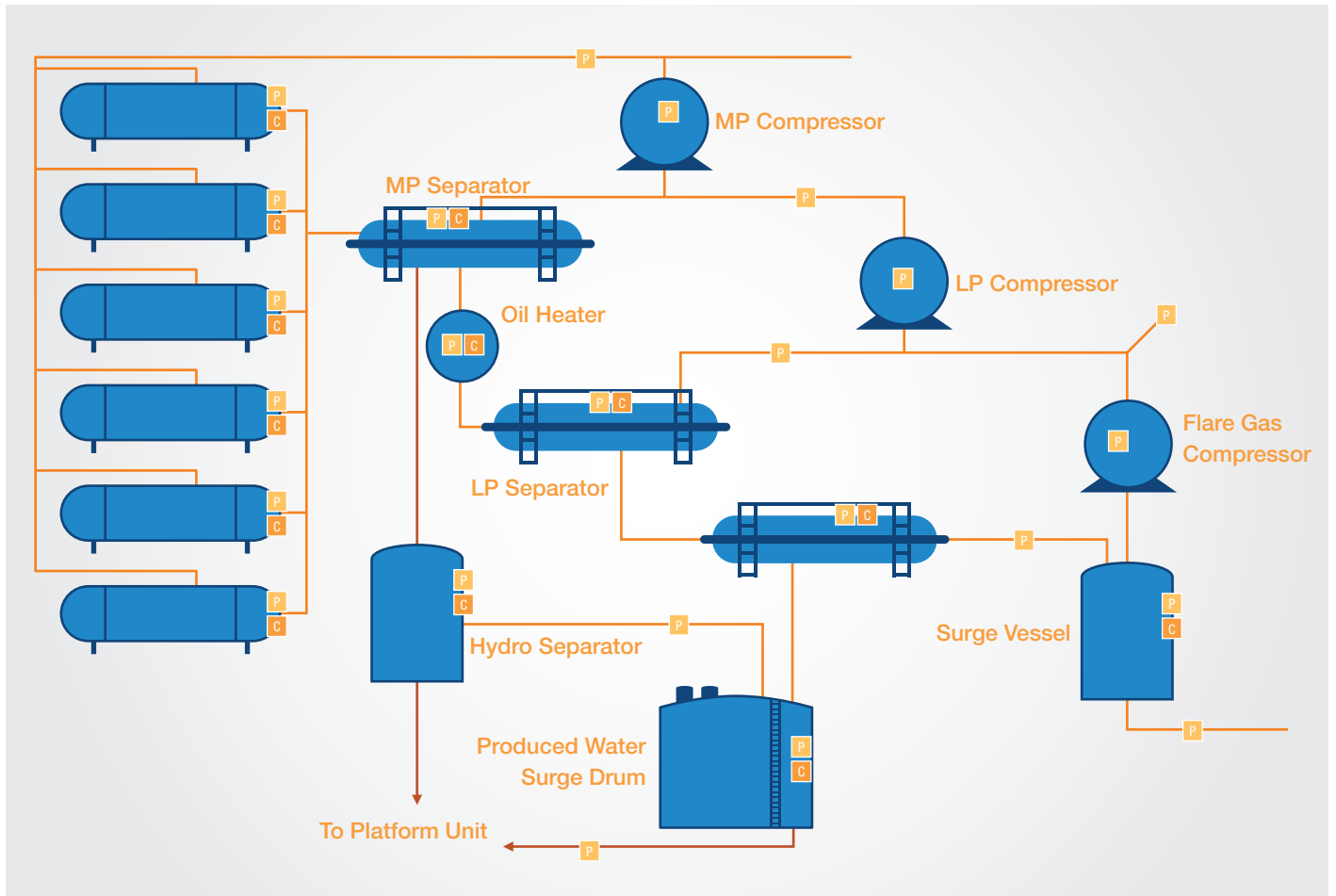


Oil & gas production - offshore Industry specific process diagram

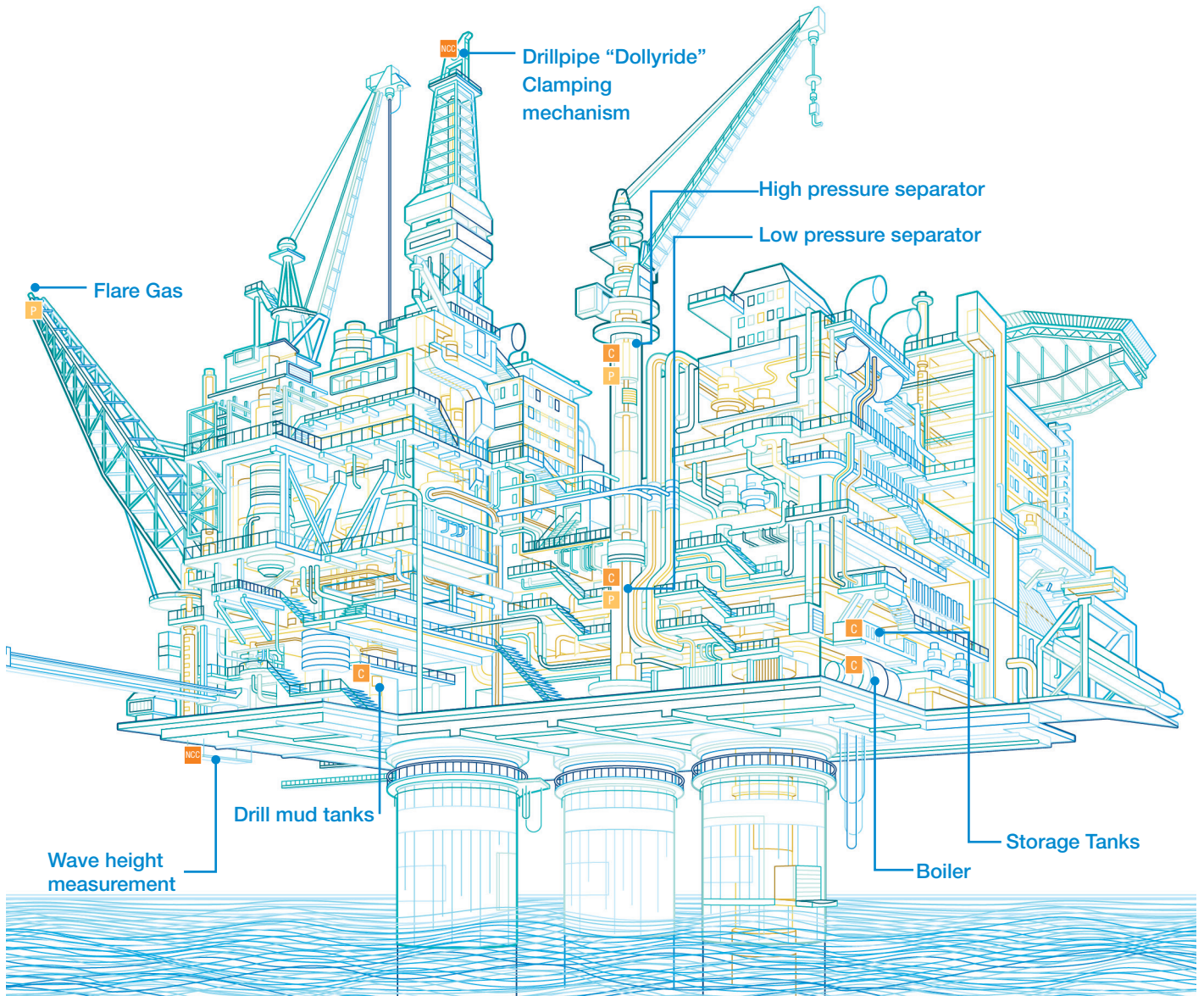
With over 35 years of experience in oil and gas production level instrumentation, ABB has solutions to the most challenging level applications. Both contact and non-contact technologies are employed in oil and gas production for on and offshore level measurement. These include guided wave radar transmitters, 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



Offshore Oil Production Diagram








Legend

P

C

NCC



Non-Contact Continuous Level Measurement

Product		Features
	RS85 Vibrating Level Switch	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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 -320°F to 900°F (-195°C to 482°C) - Pressure to 10,000 psig (689 bar) - 316L stainless steel all welded construction standard
	LS Series Mechanical Level Switch	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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

Product	Features
 <p data-bbox="411 394 654 451">MT5000/MT5100 Guided Wave Radar Transmitters</p>	<ul data-bbox="703 310 1455 535" style="list-style-type: none"> - 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
 <p data-bbox="411 842 646 898">AT100 Magnetostrictive Level Transmitters</p>	<ul data-bbox="703 772 1342 961" style="list-style-type: none"> - 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
 <p data-bbox="400 1272 671 1360">KM26 Magnetic Level Gauge with AT200 Magnetostrictive Level Transmitter</p>	<ul data-bbox="703 1188 1455 1444" style="list-style-type: none"> - 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
 <p data-bbox="392 1734 676 1791">MagWave Dual Chamber Level System</p>	<ul data-bbox="703 1633 1369 1885" style="list-style-type: none"> - 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)


C

Continuous Level Measurement

Product		Features
	<p>AT500 Magnetostrictive Level Transmitter</p>	<ul style="list-style-type: none"> - 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
	<p>AT200 as a Valve Positioner</p>	<ul style="list-style-type: none"> - High accuracy .01 % of full scale with patented magnetostrictive sensing technology - Microprocessor-based - Never requires recalibration - Field replaceable module

NCC

Non-Contact Continuous Level Measurement

Product		Features
	<p>LM80/LM200 Laser Level Transmitters</p>	<ul style="list-style-type: none"> - The LM80/LM200 lasers are robust laser transmitters that can accurately measure level, distance and position over long ranges in extreme environments. - LM80's long range is to 200 ft./60 m - LM200's long range is to 500 ft. / 150 m - No beam divergence = no false echoes - Measure surface at any angle with narrow beam

Contact us

ABB Inc.

18321 Swamp Road
Prairieville, LA 70769 USA
Phone: +1 225 673 6100
Service: +1 225 677 5836
Fax: +1 225 673 2525
E-mail: quotes.ktek@us.abb.com
Service e-mail: ktek-service@us.abb.com

ABB Inc.

585, Boulevard Charest E., Suite 300
Quebec, QC Canada G1K 9H4
Phone: +1 418 877 2944
Service: +1 800 858 3847
Fax: +1 418 877 2834
E-mail: qc_rfq@ca.abb.com
Service e-mail: laserscanner.support@ca.abb.com

ABB Engineering (Shanghai) Ltd.

No. 5, Lane 369, Chuangye Road
Kangqiao Town, Pudong District
Shanghai, 201319, P.R. China
Phone: +86 10 64231407
Service: +86 21 61056421
Fax: +86 10 64371913
E-mail: shan.li@cn.abb.com
Service e-mail: rola.li@cn.abb.com

ABB Limited

Salterbeck Trading Estate
Workington, Cumbria, England CA14 5DS
Phone: +44 7885333752
Service: +44 145 3826661
E-mail: enquiries.mp.uk@gb.abb.com
Service e-mail: abb.service@gb.abb.com

www.abb.com/level

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Sales



Service