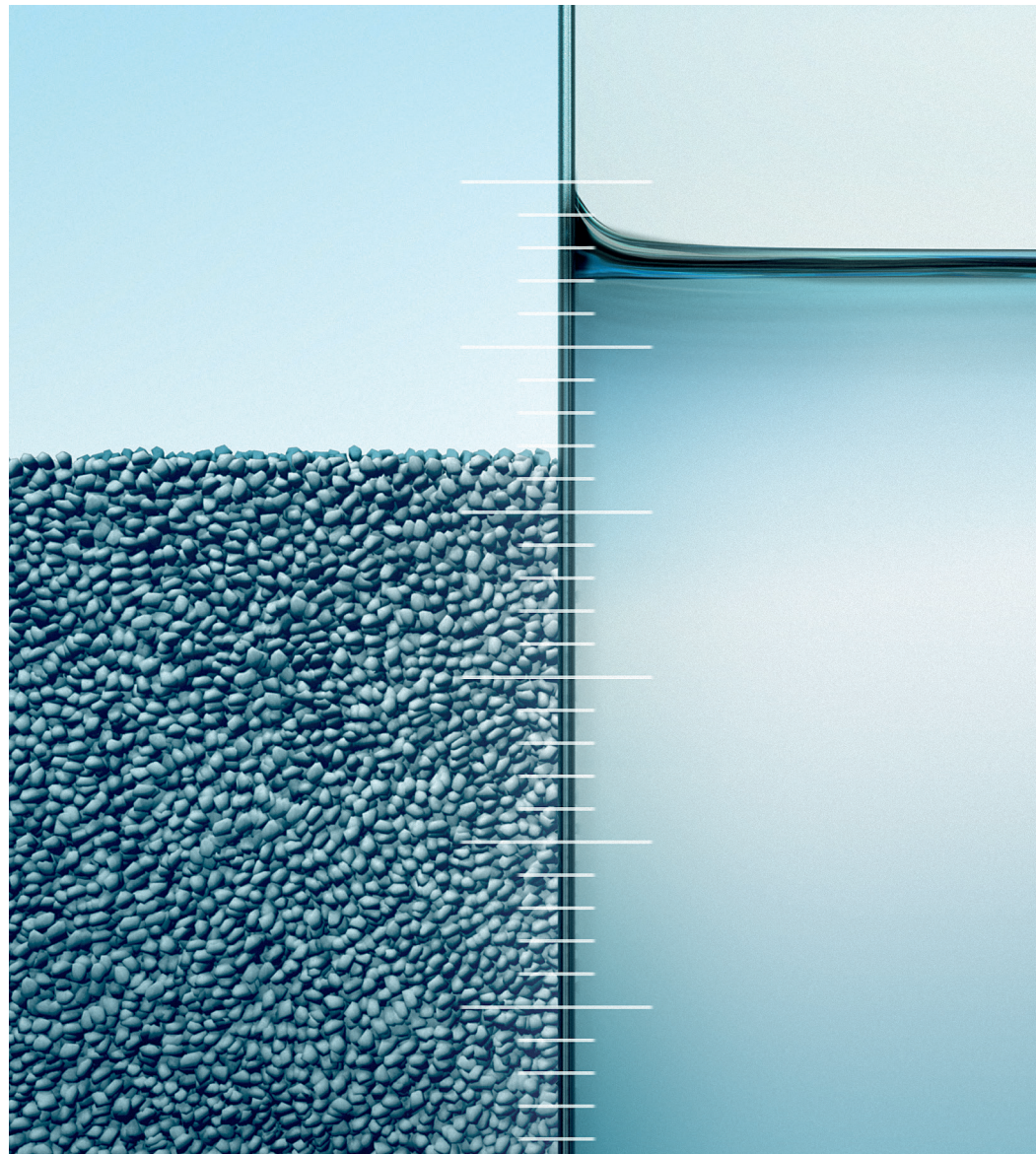


Take your process to the next level

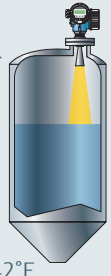
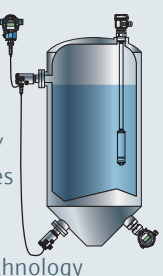
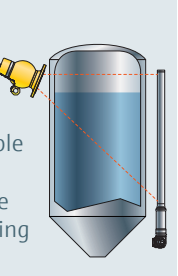


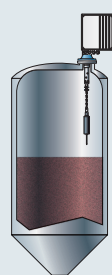
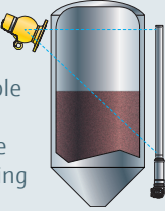
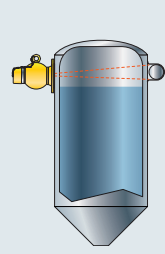
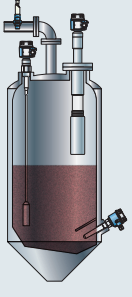
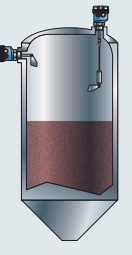

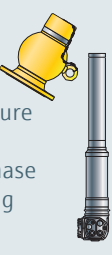
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Level measurement technology - fit for application

Continuous level measurement in liquids	Radar - 6/26/80GHz <ul style="list-style-type: none"> Non-contact, maintenance-free measurement Detects product buildup for predictive maintenance Unaffected by disturbances in the product surface & tank obstacles For temperatures up to +842°F 	Guided Wave Radar <ul style="list-style-type: none"> Unaffected by disturbances in the product surface & tank obstacles Predictive maintenance due to process buildup Additional measuring safety through End-of-Probe (EoP) recognition 	Ultrasonic <ul style="list-style-type: none"> Unaffected by disturbances in the product surface & tank obstacles Non-contact, maintenance-free measurement Calibration without filling or discharging Self-cleaning effect 	Hydrostatic <ul style="list-style-type: none"> Unaffected by surface foam Unaffected by tank obstacles/tank geometries Simple engineering Established technology 	Capacitance <ul style="list-style-type: none"> Unaffected by surface foam Unaffected by tank obstacles/tank geometries Simple engineering Established technology 	Radiometry <ul style="list-style-type: none"> Non-contact measurement from outside Provides reliable measurement even under the most challenging conditions 	Servo <ul style="list-style-type: none"> Unaffected by medium properties like conductivity or dielectric constant Custody transfer applications 	
	Continuous level measurement in bulk solids	Radar - 26/80GHz <ul style="list-style-type: none"> Non-contact, maintenance-free measurement Predictive maintenance due to process buildup Unaffected by product properties like density Unaffected by temperature, filling noise and dust 	Guided Wave Radar <ul style="list-style-type: none"> Unaffected by product surface or baffles in silos Predictive maintenance due to process buildup Additional safety by End-of-Probe evaluation Safe measurement during filling 	Ultrasonic <ul style="list-style-type: none"> Non-contact, maintenance-free measurement Calibration without filling or discharging Cost-effective for silo farms with FMU95 multichannel system Self-cleaning effect 	Electromechanical <ul style="list-style-type: none"> Unaffected by product properties Light bulk solids Unaffected by DC value 	Radiometry <ul style="list-style-type: none"> Non-intrusive measurement from outside Provides reliable measurement even under the most challenging conditions 	Online tools	
Point level detection in liquids	Vibronic <ul style="list-style-type: none"> Unaffected by media Ready for use without calibration Self-monitoring In-situ function test Can be used in turbulent and effervesce liquids 	Capacitance <ul style="list-style-type: none"> Simple commissioning Versatile Reliable function independent of build-up 	Conductive <ul style="list-style-type: none"> Multipoint detection with one process connection Simple instrumentation 	Float switch <ul style="list-style-type: none"> Solution for Ex area applications 	Radiometry <ul style="list-style-type: none"> Non-intrusive measurement from outside 	Rep Finder We partner with a network of representatives who work closely with customers from various industries. Find your local Endress+Hauser partner.  www.endress.com/rep-finder		
	Point level detection in bulk solids	Vibronic <ul style="list-style-type: none"> Easy installation Maintenance-free Large variety of options, process connections and installation locations 	Capacitance <ul style="list-style-type: none"> Robust solution that has been proven in a number of installations Versatile 	Paddle <ul style="list-style-type: none"> Measuring principle for simple applications Calibration not required Rotation monitoring 	Microwave barrier <ul style="list-style-type: none"> Non-invasive in tanks penetrated by microwaves from outside Direct assembly May also be used as a counter for individual items 	Radiometry <ul style="list-style-type: none"> Non-intrusive measurement from outside Provides reliable measurement even under the most challenging conditions 	Operations App Access to up-to-date product information and device details wherever you are, whenever you need it.  Available on the  App Store  Google play	
Density and interface measurement	Density measurement				Interface measurement			
	Vibronic - Liquiphant <ul style="list-style-type: none"> Calculation of customer specific units Useable in hygienic applications Connect up to 5 sensors to the FML621 density computer 	Coriolis - Promass <ul style="list-style-type: none"> Approval for custody transfer applications No maintenance necessary Direct measurement of density, temperature and mass flow provide maximum process dependability 	Radiometry - Gammapilot <ul style="list-style-type: none"> Straightforward retrofitting without process interruption; the pipes do not have to be opened Can be used in Newtonian as well as in Non-Newtonian fluids/media 	Guided radar; FMP51/52/54 <ul style="list-style-type: none"> Measure interface layer and total level simultaneously Not affected by the density of the medium Applications up to +842°F/ +5,800psi 	Capacitance; FMP55 (guided wave radar + capacitance) <ul style="list-style-type: none"> Measure interface layer and total level simultaneously with emulsion present Independent of medium density Applications up to +392°F 	Capacitance; FMI51/52 <ul style="list-style-type: none"> Not affected by the density of the medium Reliable indication in emulsion layers Applications up to +392°F/+1,450psi 	Radiometry; 2-wire FMG50 <ul style="list-style-type: none"> Non-invasive and maintenance-free measuring method Unaffected by pressure and temperature Solution for multiphase interface layers using several detectors 	



Reliability and Safety by Design

- Predict potential systematic failure such as corrosion and buildup or detect foam with heartbeat technology



- Prevent systematic errors due to accidental parameter changes
- Continuous (and on demand) validation of instrument operation with Heartbeat Technology
- SIL - Declaration of Conformity according to IEC61508 and verified by an independent third party (TUV)



Simplicity and Ease of Use

- Use your smartphone or tablet to commission or communicate to your device. No need for multiple tools or updating DTMs
- Reduce Troubleshooting and maintenance downtime - problem and solution are identified by the instrument
- Intuitive HMI



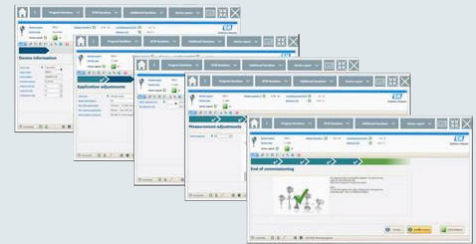
Productivity



- Improve installation and commissioning time of the instrument by 30% with setup via Bluetooth (no additional hardware needed)
- In-situ proof test with guided proof test wizard

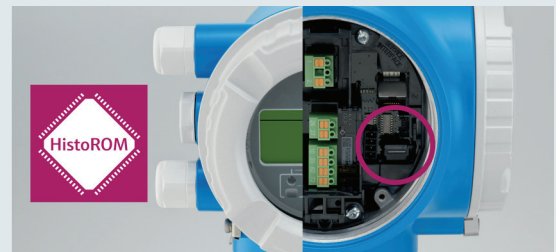
Commissioning wizard

- Improve commissioning efficiency by 30% through instrument led commissioning wizard
- Allows you to get up and running quickly with step-by-step guidance



HistoROM/Display

- Simplify commissioning of instruments in duplicate applications
- Track setting changes
- Reduce Maintenance Downtime
 - No need to re-commission devices if you replace the electronics
 - Storage of critical application data for easy troubleshooting



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