

Ultrasonic Applications

Liquid Level Monitoring

To monitor stable liquids with no gases or volatile surfaces. Pick a sensor with the range for your application. This will determine the frequency of your sensor. For corrosive applications the transducer material can be chosen that is compatible with the liquid.

Solid Material Level Monitoring

To monitor solid material; the lower operating frequency helps to penetrate dusty the atmosphere found in solids level storage vessels, tanks and bins. They are usually larger in size and require the larger and more powerful transducers for reliable measurement.

High Temperature Applications

To monitor applications with elevated temperatures sensor material selection is important. Special sensor design with thermal isolation is required. Temperature in environment does not effect the ABM sensors performance, because of special and innovative construction of the sensor's drivers.

Sanitary / Hygienic Applications

For sanitary applications ABM provides continuous ultrasonic sensors with 1.5" and 2" tri-clamp mounting. For the food industry the sensor must withstand steam cleaning or clean-in-place (CIP), be quickly removable, and easy to re-install. For high pressure and/ or temperature applications, the sensors are available with custom stainless steel transducer.

Remote Monitoring Applications

Remote non-contact ultrasonic level sensors have a built-in cellular modem for remote communication and ABM support. Continuous power and battery or solar panel power (wireless) options are available.

Fast Response Applications

Monitoring fast moving objects is possible with the revolutionary fast response protocol design. ABM ultrasonic sensors measure 10-30 echoes per second, allowing for measurement of any solid material profile.

Liquid-Solid Interface Detection

Monitoring the interface between liquids and solids using the submersible ultrasonic level sensor matched to water. The sensor can be used to monitor the sand, sludge or sediment level at the bottom of the tank or pond.

Ultrasonic Level Sensors and Switches

ABM's ultrasonic technologies are applied to non-contact continuous level sensors matched to air, submersible continuous level sensors matched to water and non-invasive point level switches.

Non-Contact Ultrasonic Level Sensors and Mini Ultrasonic Level Transmitters

An ultrasonic pulse is transmitted from the sensor. The pulse travels through air to the surface being monitored and is reflected off the surface back to the sensor. The time-of-flight is divided by two, corrected with temperature, and converted to an output signal directly proportional to the material level.

Ultrasonic is the ideal solution for measuring the level of liquids or solids without gases or vapours such as CO₂, CO, H₂S, H₂. Select a mini ultrasonic model for short range liquid applications measuring small tanks, drums, totes, barrels or weirs.

Family	Application	Maximum Range	Frequency	Temperature	Pressure	Transducer	Mounting
UL-LIQ	Liquids	Up to 100 ft (30.5 m)	25, 45, 52, 70, 80, 81 or 148 kHz	-40 to 60°C (-40 to 140°F)	≤ 2 Bar (29 psi)	PVC or Teflon	1" - 6" NPT
UL-SLD	Solid Material	Up to 100 ft (30.5 m)	25 or 45 kHz	-40 to 60°C (-40 to 140°F)	≤ 2 Bar (29 psi)	PVC or Teflon	1" - 6" NPT
UL-SAN	Sanitary / Hygienic	Up to 30 ft (9.1 m)	70, 80, 81 or 148 kHz	-40 to 130°C (-40 to 266°F)	≤ 5 Bar (72.5 psi)	SS316L	1.5" or 2" Tri-Clamp
UL-HT	High Temperature / Corrosion Resistant	Up to 60 ft (18.2 m)	45, 52, 70, 80, 81 or 148 kHz	-40 to 130°C (-40 to 266°F)	≤ 2 Bar (29 psi)	Teflon	1" - 3" NPT
UL-RM	Remote Monitoring (continuous power)	Up to 60 ft (18.2 m)	45, 52, 70, 80, 81 or 148 kHz	-40 to 60°C (-40 to 140°F)	≤ 2 Bar (29 psi)	PVC, Teflon or SS316L	1" - 3" NPT
UL-RMB	Remote Monitoring (battery or solar panel)	Up to 60 ft (18.2 m)	45, 52, 70, 80, 81 or 148 kHz	-40 to 60°C (-40 to 140°F)	≤ 2 Bar (29 psi)	PVC, Teflon or SS316L	1" - 3" NPT
UL-FR	Fast Response (2-wire loop-powered)	Up to 100 ft (30.5 m)	25, 45, 52, 70, 80, 81 or 148 kHz	-40 to 60°C (-40 to 140°F)	≤ 2 Bar (29 psi)	PVC	1" - 6" NPT
UL-RT	Extreme Temperature	Up to 60 ft (18.2 m)	45, 52, 70, 80, 81 or 148 kHz	-40 to 130°C (-40 to 266°F)	≤ 2 Bar (29 psi)	Teflon (detached)	1" - 3" NPT

Mini Family	Application	Maximum Range	Frequency	Temperature	Pressure	Transducer	Mounting
UM-LIQ	Liquids	Up to 50 ft (15.2 m)	52, 70, 80, 81 or 148 kHz	-40 to 60°C (-40 to 140°F)	≤ 2 Bar (29 psi)	PVC	1", 1.5" or 2" NPT
UM-SAN	Sanitary / Hygienic	Up to 33 ft (10.1 m)	70, 80, 81 or 148 kHz	-40 to 130°C (-40 to 266°F)	≤ 5 Bar (72.5 psi)	SS316L	1.5" or 2" Tri-Clamp
UM-HT	High Temperature / Corrosion Resistant	Up to 50 ft (15.2 m)	52, 70, 80, 81 or 148 kHz	-40 to 130°C (-40 to 266°F)	≤ 2 Bar (29 psi)	Teflon	1", 1.5" or 2" NPT
UM-SB	Short Blanking	Up to 6 ft (1.8 m)	148 kHz	-40 to 60°C (-40 to 140°F)	≤ 2 Bar (29 psi)	PVC	1" NPT

Submersible Ultrasonic Level Sensor

An ultrasonic pulse matched to water is transmitted from the sensor. The pulse travels through water to the surface being monitored and is reflected off the surface back to the sensor. The time-of-flight is divided by two, corrected with temperature and converted to an output signal directly proportional to the material level.

ABM's submersible ultrasonic is ideal for solid layer detection underwater, underwater pump control and interface detection.

Family	Application	Maximum Range	Frequency	Temperature	Pressure	Transducer	Mounting
UMM-LIQ	Liquids	Up to 40 ft (12.2 m)	148 kHz	-40 to 60°C (-40 to 140°F)	≤ 5 Bar (72.5 psi)	Teflon	Clamp

Non-Invasive Ultrasonic Level Switch

The switch emits a short burst of ultrasonic energy. The energy is coupled through a rubber membrane to the tank causing the tank to vibrate. The tank vibrations are detected and analysed by the switch. Based on the vibration patterns the switch is able to detect the presence or absence of liquid inside the tank, directly opposite the switch.

The switch is ideal for non-invasive point level measurement of liquids in plastic or metal tanks.

Family	Application	Frequency	Temperature	Transducer	Mounting
US-LIQ	Liquids	148 kHz	-40 to 60°C (-40 to 140°F)	PVC	Magnetic Flange or Ratchet Strap
US-HT	High Temperature	148 kHz	-40 to 130°C (-40 to 266°F)	Teflon	Magnetic Flange or Ratchet Strap
US-HP	High Pressure / Thick Wall Tanks	148 kHz	-40 to 60°C (-40 to 140°F)	PVC or Teflon	Magnetic Flange or Ratchet Strap

Liquid Applications | UL-LIQ



The UL-LIQ ultrasonic level sensor is the ideal solution for liquid level applications without vapours or gases.

Features

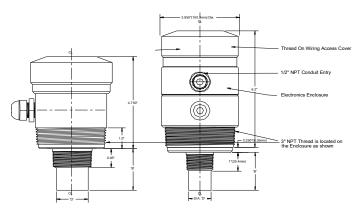
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple calibration
- Built-in temperature compensation
- 2-wire loop-powered, 3-wire or 4-wire operation
- 4-20 mA / 20-4 mA output standard
- Optional HART, RS232 or RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)



Applications

Liquid level measurement for: Water, Wastewater, Chemical, Food, Beverage and more.

Technical Data	
Measuring Range:	0.4 to 100 ft (0.12 to 30.5 m)
Temperature:	-40 to 60°C (-40 to 140°F)
Pressure Rating:	≤ 2 Bar (29 psi)
Mounting:	1" - 6" NPT



Catalogue Number Ordering					
Supply Voltage:	12-30 VDC Loop-Powered (2-wire) 12-30 VDC Power (3-wire) 120 VAC Power (4-wire) 230 VAC Power (4-wire)	200 300 400 430			
Maximum Range:	9 ft (2.7 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz 60 ft (18.2 m) - 45 kHz 100 ft (30.5 m) - 25 kHz	148 081 080 070 052 045 148			
Product Series:	Ultrasonic Sensor	UL			
Communication:	HART RS232 RS485	CH C2 C4			
Enclosure:	PVC Aluminum SS316L	PV AL SS			
Transducer:	PVC Teflon	PVC TEF			

Model:	ABM		-		UL		-			
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Solid Material Applications | UL-SLD



The UL-SLD ultrasonic level sensor is the ideal solution for solid material level applications with dust and steep angle of repose.

Features

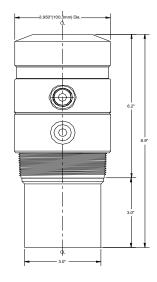
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up on transducer face
- Plug-and-play installation with simple calibration
- Built-in temperature compensation
- 2-wire loop-powered, 3-wire or 4-wire operation
- 4-20 mA / 20-4 mA output standard
- Optional HART, RS232 or RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)



Applications

Solid level measurement for: Plastics, Cement, Animal Feed, and more.

Technical Data	
Measuring Range:	0.4 to 100 ft (0.12 to 30.5 m)
Temperature:	-40 to 60°C (-40 to 140°F)
Pressure Rating:	≤ 2 Bar (29 psi)
Mounting:	1" - 6" NPT



Catalogue Number Ordering				
Supply Voltage:	12-30 VDC Loop-Powered (2-wire) 12-30 VDC Power (3-wire) 120 VAC Power (4-wire) 230 VAC Power (4-wire)	200 300 400 430		
Maximum Range:	60 ft (18.2 m) - 45 kHz 100 ft (30.5 m) - 25 kHz	045 025		
Product Series:	Ultrasonic Sensor	UL		
Communication:	HART RS232 RS485	CH C2 C4		
Enclosure:	PVC Aluminum SS316L	PV AL SS		
Transducer:	PVC Teflon (045 only)	PVC TEF		

Model: ABM UL	
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Sanitary Applications | UL-SAN



The UL-SAN ultrasonic level sensor is the ideal solution for hygienic liquid, slurry or solid level applications.

Features

- SS316L transducer face with 1.5" or 2" tri-clamp mounting
- Surface finish exposed to process exceeds a No.4 / dairy finish
- Withstands clean-in-place (CIP) processes with high temp. / pressure upgrade
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple calibration
- Built-in temperature compensation
- 2-wire loop-powered, 3-wire or 4-wire operation with 4-20 mA / 20-4 mA output standard
- Optional HART, RS232 or RS485 communications with free calibration, diagnostics and data logging software. PLC compatible (Modbus RTU)
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)



Level measurement for: Food, Beverage, Pharmaceutical, Water and more.



Technical Data					
Measuring Range:	0.4 to 30 ft (0.12 to 9.1 m)				
Temperature:	-40 to 60°C (-40 to 140°F) or -40 to 130°C (-40 to 266°F) with HTP				
Pressure Rating:	≤ 2 Bar (29 psi) or ≤ 5 Bar (72.5 psi) with HTP				
Mounting:	1.5" or 2" tri-clamp				

Dimensions				
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	l≟" or 2" Sanitary Tri Cl ∕ltg.	lamp	Ferrule 1.5	*Ø = 2.2* Ø = 2.2*
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Catalogue Number Ordering					
Supply Voltage:	12-30 VDC Loop-Powered (2-wire) 12-30 VDC Power (3-wire) 120 VAC Power (4-wire) 230 VAC Power (4-wire)	200 300 400 430			
Maximum Range:	9 ft (2.7 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz	148 081 080 070			
Product Series:	Ultrasonic Sensor	UL			
Communication:	HART RS232 RS485	CH C2 C4			
Enclosure:	PVC Aluminum SS316L	PV AL SS			
Transducer:	SS316L 1.5" Tri-Clamp SS316L 2" Tri-Clamp	S15 S20			
Optional:	High Temperature and Pressure	HTP			

High Temperature Applications | UL-HT



The UL-HT ultrasonic level sensor is the ideal solution for liquid level applications in high temperature processes.

Features

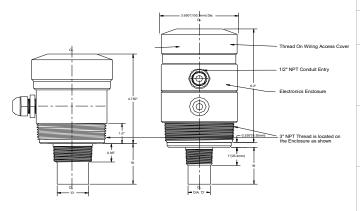
- High temperature processes up to 130°C (266°F)
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple calibration
- Built-in temperature compensation
- 2-wire loop-powered, 3-wire or 4-wire operation
- 4-20 mA / 20-4 mA output standard
- Optional HART, RS232 or RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)



Liquid and solid level measurement for: Water, Wastewater, Chemical and more.



Technical Data					
Measuring Range:	0.4 to 100 ft (0.12 to 30.5 m)				
Temperature:	-40 to 130°C (-40 to 266°F)				
Pressure Rating:	≤ 2 Bar (29 psi)				
Mounting:	1" - 6" NPT				



Catalogue Number Ordering					
Supply Voltage:	12-30 VDC Loop-Powered (2-wire) 12-30 VDC Power (3-wire) 120 VAC Power (4-wire) 230 VAC Power (4-wire)	200 300 400 430			
Maximum Range:	9 ft (2.7 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz 60 ft (18.2 m) - 45 kHz 100 ft (30.5 m) - 25 kHz	148 081 080 070 052 045 025			
Product Series:	Ultrasonic Sensor	UL			
Communication:	HART RS232 RS485	CH C2 C4			
Enclosure:	PVC Aluminum SS316L	PV AL SS			
Transducer:	Teflon	TEF			

Model:	ABM		-		UL		-		TEF
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Non-Contact Ultrasonic Level Sensors (Continuous Power) for **Remote Monitoring | UL-RM**



The UL-RM ultrasonic level sensor is the ideal solution for liquid and solids remote monitoring level applications.

Features

- Built-in cellular modem for remote communication and monitoring
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple remote setup
- Built-in temperature compensation
- 3-wire operation with 4-20 mA / 20-4 mA output standard
- Sensor Access Website for measurement history, calibration and diagnostics
- Side mount or detached magnetic mount cellular antenna options
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)

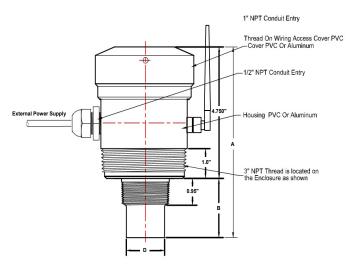


Applications

Level measurement for: Water, Chemical, Cement, Plastic, Environmental and more.

Technical Data					
Measuring Range:	0.4 to 60 ft (0.12 to 18.2 m)				
Temperature:	-40 to 60°C (-40 to 140°F)				
Pressure Rating:	≤ 2 Bar (29 psi)				
Mounting:	1" - 3" NPT				

Catalogue Number Ordering					
Supply Voltage:	12-30 VDC Power (3-wire)	300			
Maximum Range:	9 ft (2.7 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz 60 ft (18.2 m) - 45 kHz	148 081 080 070 052 045			
Product Series:	Ultrasonic Sensor	UL			
Communication:	Cellular Modem	СМ			
Enclosure:	PVC Aluminum SS316L	PV AL SS			
Transducer:	PVC Teflon	PVC TEF			



Model:	ABM	300	-		UL	СМ	-			
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Non-Contact Ultrasonic Level Sensors (Battery or Solar Panel) for Wireless Remote Monitoring | UL-RMB



The wireless UL-RMB battery powered ultrasonic level sensor is the ideal solution for liquid and solids remote monitoring level applications.

Features

- Battery or solar panel power operation
- Internal or external battery pack options
- Maintenance-free, non-contact level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple remote setup
- Built-in temperature compensation
- Sensor Access Website for measurement history, calibration and diagnostics
- Side mount or detached magnetic mount cellular antenna options
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)

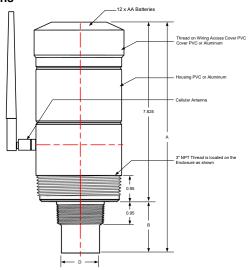


Applications

Level measurement for: Water, Chemical, Cement, Plastic, Environmental and more.

Technical Data					
Measuring Range:	0.4 to 60 ft (0.12 to 18.2 m)				
Temperature:	-40 to 60°C (-40 to 140°F)				
Pressure Rating:	≤ 2 Bar (29 psi)				
Mounting:	1" - 3" NPT				

Catalogue Number Ordering						
Supply Voltage:	6-30 VDC Power (Battery)	100				
Maximum Range:	9 ft (2.7 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz 60 ft (18.2 m) - 45 kHz	148 081 080 070 052 045				
Product Series:	Ultrasonic Sensor	UL				
Communication:	Cellular Modem	СМ				
Enclosure:	PVC Aluminum SS316L	PV AL SS				
Transducer:	PVC Teflon	PVC TEF				
Battery Pack:	Internal 12AA Holder External 8D Enclosure External 18D Enclosure	AA 8D 18D				



Model:	ABM	100	-		UL	СМ	-			-	
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Non-Contact Ultrasonic Level Sensors (2-Wire Loop-Powered) for

Fast Response Applications | UL-FR



The UL-FR is the fastest 2-wire loop-powered ultrasonic level sensor, ideal for liquid or solid level applications that require rapid response.

Features

- At least three (3) updates per second and the fastest HART communication
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple calibration
- Built-in temperature compensation
- 2-wire loop-powered operation
- 4-20 mA / 20-4 mA output standard
- HART communications with free calibration, diagnostics and data logging software
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)

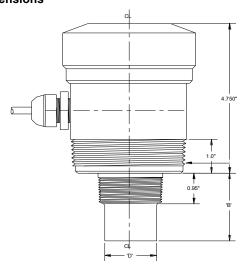


Applications

Liquid and solid level measurement for: Water, Wastewater, Chemical, Food, Beverage and more.

Technical Data					
Measuring Range:	0.4 to 100 ft (0.12 to 30.5 m)				
Temperature:	-40 to 60°C (-40 to 140°F)				
Pressure Rating:	≤ 2 Bar (29 psi)				
Mounting:	1" - 6" NPT				

Catalogue Number Ordering						
Supply Voltage:	12-30 VDC Loop-Powered (2-wire)	200				
Maximum Range:	9 ft (2.7 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz 60 ft (18.2 m) - 45 kHz 100 ft (30.5 m) - 25 kHz	148 081 080 070 052 045 148				
Product Series:	Ultrasonic Sensor	UL				
Communication:	HART	СН				
Enclosure:	PVC Aluminum SS316L	PV AL SS				
Transducer:	PVC Teflon	PVC TEF				



Model:	ABM	200	-		UL	СН	-		
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Ultrasonic Transmitter with Remote Transducer for

Very High Temperature Applications | UL-RT



The UL-RT ultrasonic transmitter with detached transducer is the ideal solution for liquid and solid level applications in very high temperature environments.

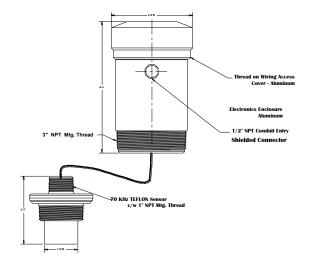
Features

- Transmitter with detached high temperature Teflon transducer (up to 130°C / 266°F)
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple calibration
- Built-in temperature compensation
- 2-wire loop-powered, 3-wire or 4-wire operation
- 4-20 mA / 20-4 mA output standard
- Optional HART, RS232 or RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- PVC, aluminum and SS316L housing options to withstand any environment
- Ingress protection IP68 rating (NEMA 6)



Level measurement for: Construction, Chemical, Food, Beverage and more.

Technical Data					
Measuring Range:	0.4 to 60 ft (0.12 to 18.2 m)				
Temperature:	-40 to 130°C (-40 to 266°F)				
Pressure Rating:	≤ 2 Bar (29 psi)				
Mounting:	1" - 2" NPT				



Catalogue Number Ordering						
Supply Voltage:	12-30 VDC Loop-Powered (2-wire) 12-30 VDC Power (3-wire) 120 VAC Power (4-wire) 230 VAC Power (4-wire)	200 300 400 430				
Maximum Range:	9 ft (2.7 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz 60 ft (18.2 m) - 45 kHz	148 081 080 070 052 045				
Product Series:	Ultrasonic Sensor	UL				
Communication:	HART RS232 RS485	CH C2 C4				
Enclosure:	PVC Aluminum SS316L	PV AL SS				
Transducer:	Teflon	TEF				

Model:	ABM		-		UL		-		TEF
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Non-Contact Mini Ultrasonic Level Transmitters for Liquid Applications | UM-LIQ



The UM-LIQ mini ultrasonic level transmitter is the ideal solution for short range liquid level applications.

Features

- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple push-button calibration
- Built-in temperature compensation
- 3-wire operation
- 4-20 mA / 20-4 mA output standard
- RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- Optional relay SPDT 8A / 230 VAC for alarm or pump control
- Ingress protection IP68 rating (NEMA 6)

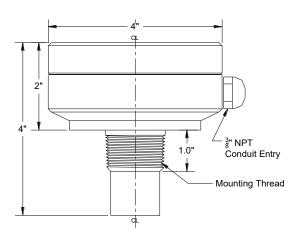


Applications

Liquid level measurement for: Water, Wastewater, Chemical, Food, Beverage and more.

Technical Data						
Measuring Range:	0.33 to 50 ft (0.10 to 15.2 m)					
Temperature:	-40 to 60°C (-40 to 140°F)					
Pressure Rating:	≤ 2 Bar (29 psi)					
Mounting:	1", 1.5" or 2" NPT					

Catalogue Number Ordering					
Supply Voltage:	12-30 VDC Power (3-wire)	300			
Maximum Range:	6 ft (1.8 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 33 ft (10.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz	148 081 080 070 052			
Product Series:	Mini Ultrasonic Transmitter	UM			
Communication:	RS485	C4			
Enclosure:	PVC	PV			
Transducer:	PVC	PVC			



Model:	ABM	300	-		UM	C4	-	PV	PVC
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Non-Contact Mini Ultrasonic Level Transmitters for Sanitary Applications | UM-SAN



The UM-SAN mini ultrasonic level transmitter is the ideal solution for short range sanitary / hygienic liquid level applications.

Features

- SS316L transducer face with 1.5" or 2" tri-clamp mounting
- Surface finish exposed to process exceeds a No.4/dairy finish
- Withstands clean-in-place (CIP) processes with high temp. / pressure upgrade
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple push-button calibration
- Built-in temperature compensation
- 3-wire operation with 4-20 mA / 20-4 mA output standard
- RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- Optional relay SPDT 8A / 230 VAC for alarm or pump control
- Ingress protection IP68 rating (NEMA 6)

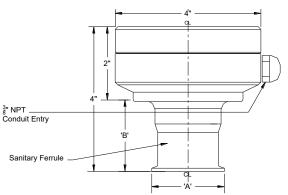


Applications

Liquid level measurement for: Water, Food, Beverage, Pharmaceutical and more.

Technical Data						
Measuring Range:	0.33 to 33 ft (0.12 to 9.1 m)					
Temperature:	-40 to 60°C (-40 to 140°F) or -40 to 130°C (-40 to 266°F) with HTP					
Pressure Rating:	≤ 2 Bar (29 psi) or ≤ 5 Bar (72.5 psi) with HTP					
Mounting:	1.5" or 2" tri-clamp					

Catalogue Number Ordering					
Supply Voltage:	12-30 VDC Power (3-wire)	300			
Maximum Range:	6 ft (1.8 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 080 kHz 33 ft (10.1 m) - 070 kHz	148 081 080 070			
Product Series:	Mini Ultrasonic Transmitter	UM			
Communication:	RS485	C4			
Enclosure:	PVC	PV			
Transducer:	SS316L 1.5" Tri-Clamp SS316L 2" Tri-Clamp	S15 S20			
Optional:	High Temperature and Pressure	HTP			



Model:	ABM	300	-		UM	C4	-	PV		_	
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Non-Contact Mini Ultrasonic Level Transmitters for

High Temperature Applications | UM-HT



The UM-HT mini ultrasonic level transmitter is the ideal solution for short range liquid level applications in high temperature processes.

Features

- High temperature Teflon transducer withstands up to 130°C (266°F)
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple push-button calibration
- Built-in temperature compensation
- 3-wire operation with 4-20 mA / 20-4 mA output standard
- RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- Optional relay SPDT 8A / 230 VAC for alarm or pump control
- Ingress protection IP68 rating (NEMA 6)

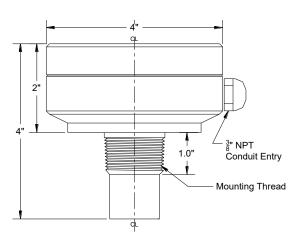


Applications

Liquid level measurement for: Water, Wastewater, Chemical and more.

Technical Data						
Measuring Range:	0.33 to 50 ft (0.10 to 15.2 m)					
Temperature:	-40 to 130°C (-40 to 266°F)					
Pressure Rating:	≤ 2 Bar (29 psi)					
Mounting:	1", 1.5" or 2" NPT					

Catalogue Number Ordering							
Supply Voltage:	12-30 VDC Power (3-wire)	300					
Maximum Range:	6 ft (1.8 m) - 148 kHz 16 ft (4.9 m) - 81 kHz 20 ft (6.1 m) - 80 kHz 30 ft (9.1 m) - 70 kHz 50 ft (15.2 m) - 52 kHz	148 081 080 070 052					
Product Series:	Mini Ultrasonic Transmitter	UM					
Communication:	RS485	C4					
Enclosure:	PVC	PV					
Transducer:	Teflon	TEF					



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Non-Contact Mini Ultrasonic Level Transmitters for **Short Blanking Applications | UM-SB**



The UM-SB mini ultrasonic level transmitter is the ideal solution for short range liquid level applications that require minimal blanking distance.

Features

- Short blanking distance of 2" (50.8 mm)
- Maintenance-free, non-contact continuous level measurements
- Self-cleaning design, no build-up or condensation on transducer face
- Plug-and-play installation with simple push-button calibration
- Built-in temperature compensation
- 3-wire operation with 4-20 mA / 20-4 mA output standard
- RS485 communications with free calibration, diagnostics and data logging software
- PLC compatible (Modbus RTU)
- Optional relay SPDT 8A / 230 VAC for alarm or pump control
- Ingress protection IP68 rating (NEMA 6)

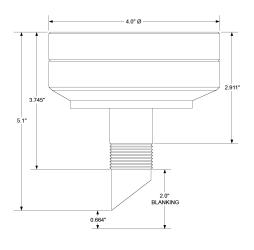


Applications

Liquid level measurement for: Water, Wastewater, Chemical and more.

Technical Data					
Measuring Range:	0.16 to 6 ft (0.05 to 1.8 m)				
Temperature:	-40 to 60°C (-40 to 140°F)				
Pressure Rating:	≤ 2 Bar (29 psi)				
Mounting:	1" NPT				

Catalogue Number Ordering						
Supply Voltage:	12-30 VDC Power (3-wire)	300				
Maximum Range:	6 ft (1.8 m) - 148 kHz	148				
Product Series:	Mini Ultrasonic Transmitter	UM				
Communication:	RS485	C4				
Enclosure:	PVC	PV				
Transducer:	PVC	PVC				
Special:	Short Blanking	SB				



Model:	ABM	300	_	148	UM	C4	_	PV	PVC	_	SB
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