

ULT 200

TWO WIRE ULTRASONIC LEVEL TRANSMITTER



Features

- Non-contact Ultrasonic Measurement
- Measuring Range up to 12 meter
- 2-Wire Loop Powered Design
- Automatic Temperature Compensation
- 4–20 mA / HART Communication
- Easy Installation & Maintenance
- Password Protection
- Software calibration
- Narrow Beam Technology
- Measures liquid height, distance to liquid, volume or flow in open channels



Description

Electronet series ULT 200 is a 2 wire Ultrasonic Level Transmitters specially designed for non-contact type level measurement. Ultrasonic level measurement is based on the transit time technology which calculates the time required by ultrasonic pulses to travel from sensor & surface of liquid & back to sensor. Ultrasonic level transmitters are the best for applications such as slurries, corrosive liquids & waste water without obstacle throughout the beam. The transmitter provides 4-20 mA DC continuous output with local indication through LCD. The measuring range is available up to 12 mtrs.

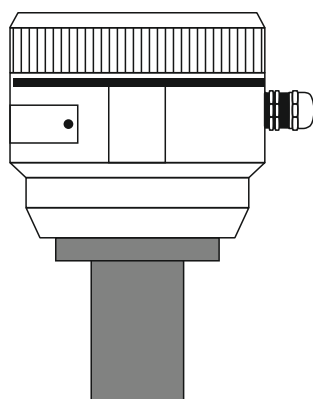
Technical Specifications

Measurement Principle	Ultrasonic : Time Of Flight
Measuring Range	up to 12 mtrs.
Electronic Location	Integral (Local)
Type of Output	4 - 20 mA DC, 4 - 20 mA with HART (Generic)
Power Supply	24V DC Two Wire Loop Powered
Power Consumption	< 500 mW
Dead Band	Less than 300 mm
Display	LCD
Accuracy	+/- 0.25% of F. S.
Linearity	+/- 0.1%
Repeatability	+/- 0.1%
Stability	+/- 0.05%
Process Temperature	0 to 85°C max.
Operating Pressure	Atmospheric
Beam Angle	< 7°
Measuring Frequency	25 KHz
Temperature Coefficient	+/- 0.01% per °C

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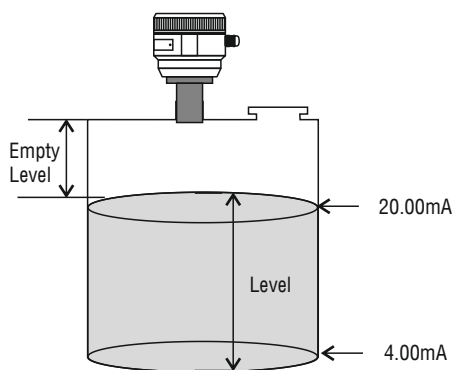
Electronic Protection Class	Flameproof (CMRI IIA IIB Certified) / Weather Proof IP-67
MOC Electronics Enclosure	1) Die Cast Aluminium PU Painted 2) SS316
Process Connection	1) 2" BSP (upto 8 meters) 2) 2.5" BSP (8 to 10 meters) 3) 3" BSP (10 to 15 meters) 4) 4" BSP (15 to 20 meters)
Mounting	Vertical - Top of the tank
Ambient Conditions	Temperature 0 to 70°C / Humidity 5 to 95% non condensing at 25°C
MOC Probe	PVC/PVDF
OPTIONAL : Communication	Application flexibility with HART communication
Certification	CE

Assembly Overview

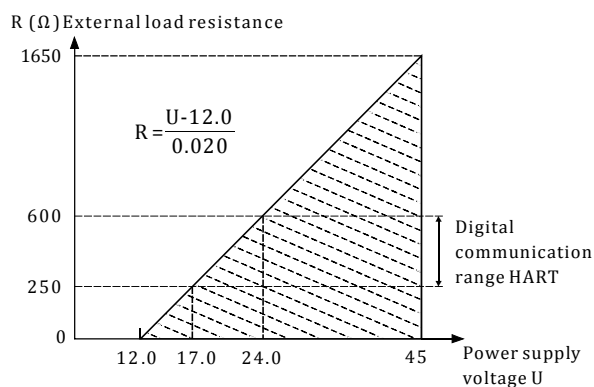


Front View

Installation Details



Power Supply & Load Requirements

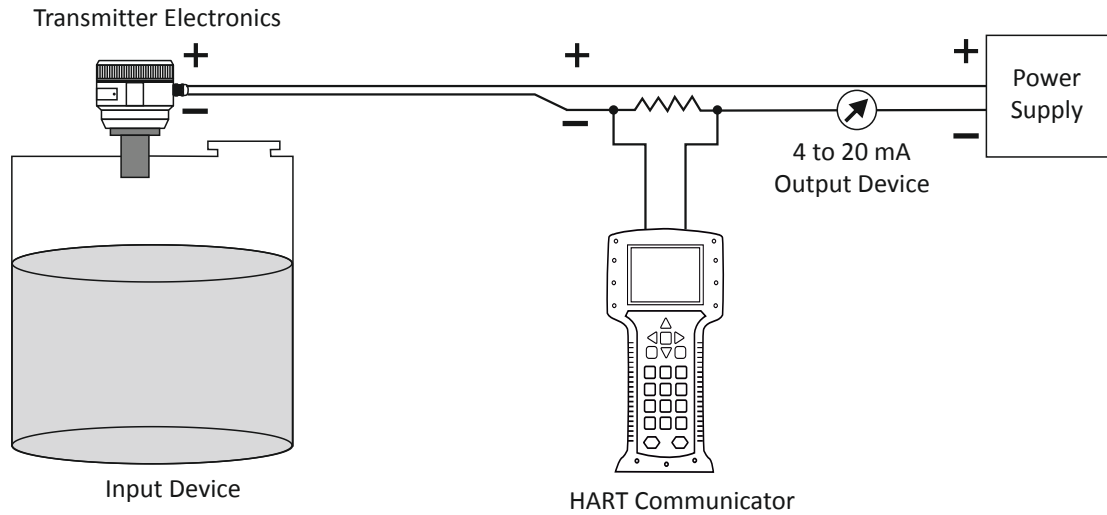


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Loop Diagram



Ordering Information

Sample Order Code : UT200-A1-B1-C1-D1-E1-F1-G1

Parameter			Code	Description				
A	Measuring Range	A1	300 mm	D	MOC Electronics Enclosure	D1	Die Cast Aluminium	
		A2	600 mm			D2	SS316	
		A3	1000 mm	E	Ultrasonic Sensor Moc	E1	PVC	
		A4	2000 mm			E2	PVDF	
		A5	3000 mm			EY	Other	
		A6	6000 mm		F	Electrical Output	F1	4 to 20 mA
		A7	8000 mm				F2	4 to 20 mA with HART
		A8	10000 mm	G		Process Connection	G1	2 " BSP Threaded
		A9	12000 mm		G2		2 " SS-316 Flanged	
B	Electronics Area Classification	B1	Field Mount Weather Proof IP67	GY	Other			
		B2	Flameproof (CMRI IIA IIB Certified)	Note : - Due to our continuous product revisions, design specification and model numbers are subject to change without notice. - Accuracy defined at Lab Conditions. - For other requirement please consult factory. - This product is meant for laboratory/Process application only and not for custody transfer application.				
C	Electrical Connection	C1	M 20 x 1.5 (F)					
		C2	½" NPT (F)					
		C3	DIN 43650 / Circular Metal Connector					
		C4	PG 9					

ELECTRONET EQUIPMENTS PVT. LTD.



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