

ULT - 200

TWO WIRE ULTRASONIC LEVEL TRANSMITTER

Features

- Non-contact type
- Compact size & Easy Maintenance
- 2 wire direct current loop powered
- Process down time minimized
- Automatic Temperature Compensation
- Measures liquid height, distance to liquid, volume or flow in open channels
- Display: LCD
- Password Protection
- Software calibration
- Easy to Install & Configure
- Narrow Beam Technology

Description

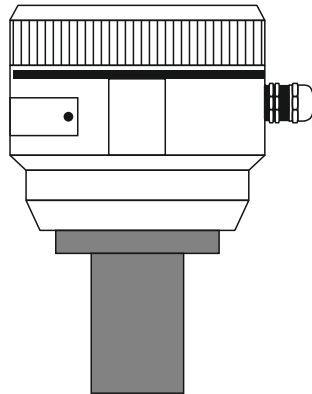
BRIX series ULT-200 is a 2 wire Ultrasonic Level Transmitters specially designed for non-contact type level measurement. Ultrasonic level measurement is based on the transit time technology which calculates the required by time ultrasonic pulses to travel from sensor & surface of liquid & back to sensor. 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

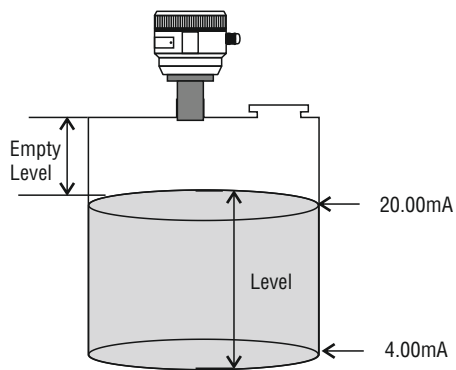
Measurement Principle	Ultrasonic : Time Of Flight
Measuring Range	up to 12 mtrs.
Electronic Location	Integral (Local)
Type of Output	4 – 20 mA DC, 4 – 20 mA with HART (Compatible)
Power Supply	24V DC Two Wire Loop Powered
Power Consumption	< 500 mW
Dead Band	Less than 300 mm
Display	LCD
Accuracy	+/- 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	< 10°
Measuring Frequency	25 KHz
Temperature Coefficient	+/- 0.01% per °C
Electronic Protection Class	Flameproof (CMRI IIA IIB Certified) / Weather Proof IP-67
MOC Electronics Enclosure	1) Die Cast Aluminium PU Painted 2) SS316 3) ABS Plastic
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 85°C / Humidity 5 to 95% non condensing at 25°C
MOC Probe	PVDF
OPTIONAL : Communication	Application flexibility with HART communication
Certification	CE

Assembly Overview

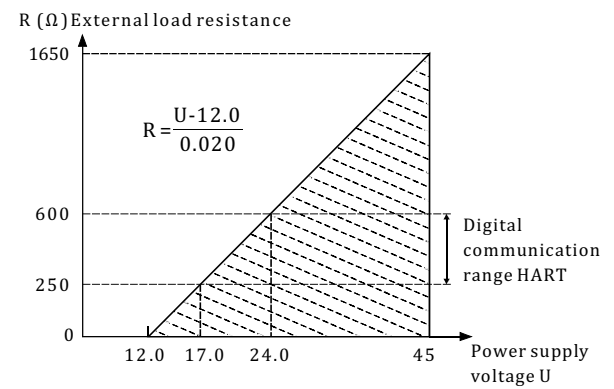


Front View

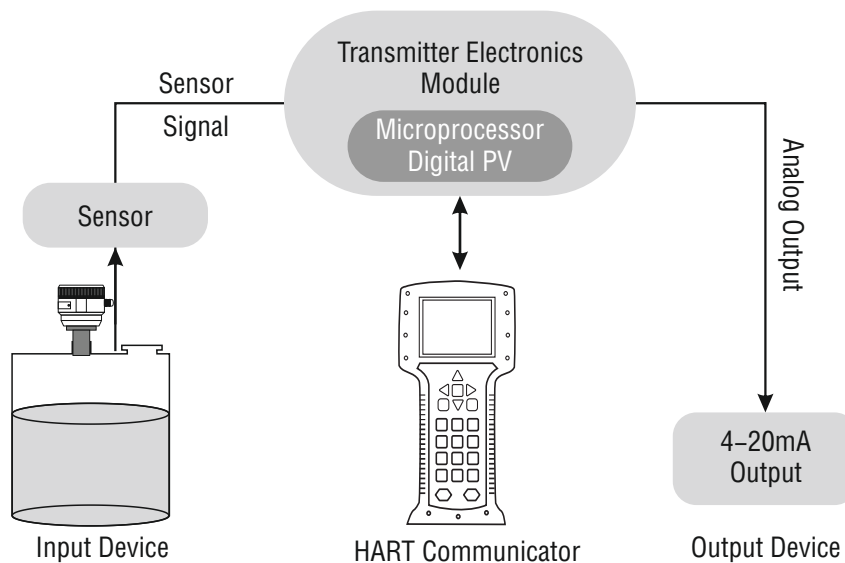
Installation Details



Power Supply & Load Requirements



Loop Diagram



Ordering Information

Sample Order Code :

A1	C1	E1	F2	H1	M4
----	----	----	----	----	----

Parameter		Code	Description
A	Measuring Range	A1	300 mm
		A2	600 mm
		A3	1000 mm
		A4	2000 mm
		A5	3000 mm
		A6	6000 mm
		A7	8000 mm
		A8	10000 mm
		A9	12000 mm
C	Electronics Area Classification	C1	Field Mount Weather Proof IP67
		C2	Flameproof (CMRI IIA IIB Certified)

Parameter		Code	Description
E	MOC Electronics Enclosure	E1	Die Cast Aluminium
		E2	SS316
		E3	ABS Plastic
F	Electrical Connection	F1	M 20 x 1.5 (F)
		F2	½” NPT (F)
		F3	DIN 43650 / Circular Metal Connector
H	Output (Any one)	H1	4 to 20 mA
		H2	4 to 20 mA with HART
		HX	NA
M	Process Connection	M2	1 1/2" BSP (M) Threaded
		M3	2 Inch BSP (M) Threaded
		M4	2 Inch PVC Flanged
		M5	2 Inch Flanged SS316
		M6	2 Inch Tri Clover SS316
		MY	Other

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.

Brix Engineering Pte Ltd

190, Middle Road, #16-01, Fortune Centre,
Singapore - 188979.

sales@brixengg.com | www.brixengg.com

M: +65 9446 2236