

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

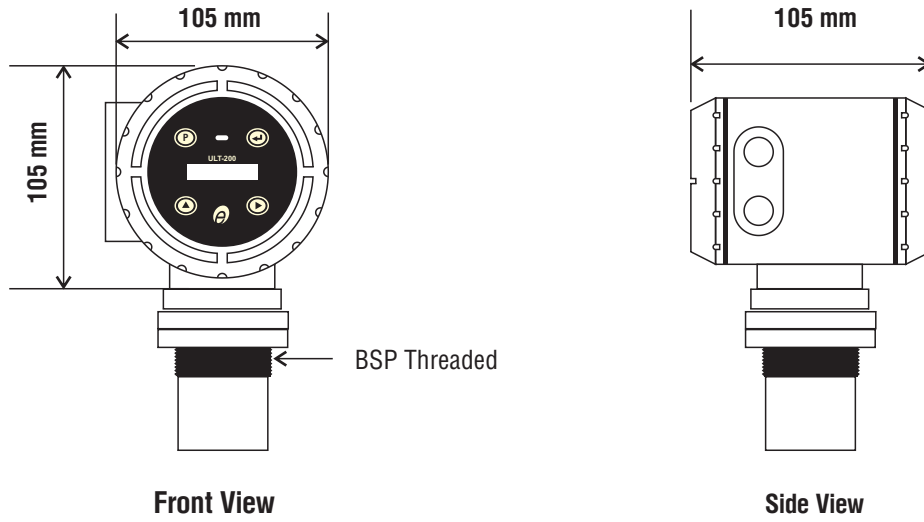
Electronet series ULT-200 is a 2 wire Ultrasonic Level Transmitters specially designed for non-contact type level measurement. Ultrasonic level measurement is based on the transit time technology which calculates the time required by ultrasonic pulses to travel from sensor & surface of liquid & back 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 20 mtrs.



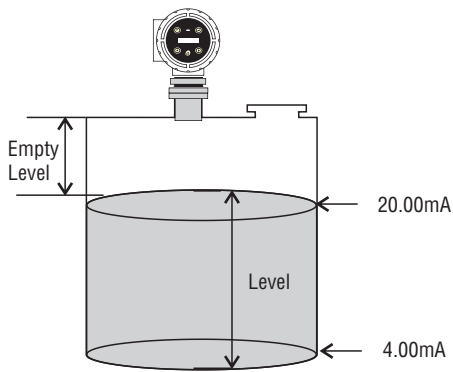
Technical Specifications

| | |
|-----------------------------|---|
| Measurement Principle | Ultrasonic : Time Of Flight |
| Measuring Range | up to 20 mtrs. |
| 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 0.3 / 0.6 mtr. |
| 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 | < 12° |
| 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) 1½" BSP (M) 2) 2" PVC Flanged 3) 2" SS316 Flanged 4) 50 NB SS316 Tri Clover 5) Other on request |
| 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 / Aluminium |
| OPTIONAL : Communication | Application flexibility with HART communication |
| Certification |  |

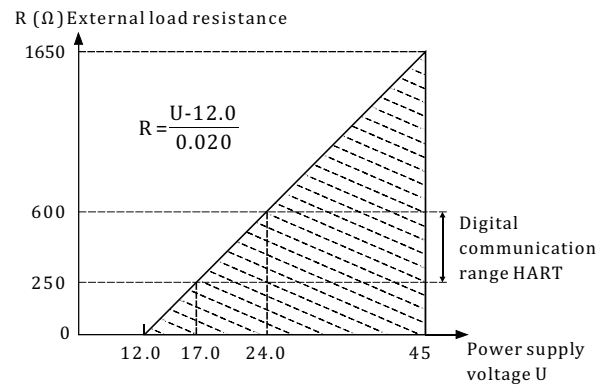
Dimensional & Mounting Panel



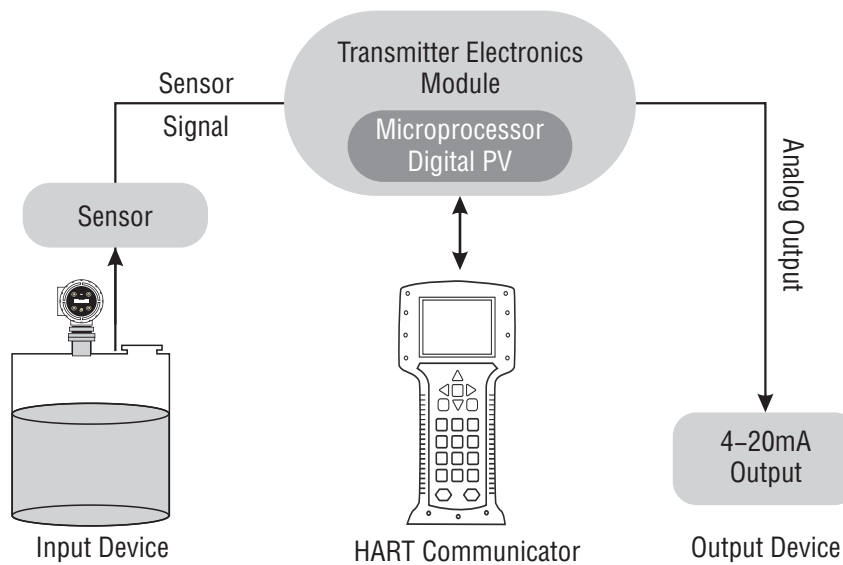
Installation Details



Power Supply & Load Requirements



Loop Diagram



Ordering Information

Sample Order Code :

| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| A3 | C1 | D5 | E1 | F2 | H1 | I1 | K2 | L1 | M2 | O5 |
|----|----|----|----|----|----|----|----|----|----|----|

| Parameter | Code | Description | Parameter | Code | Description | | |
|-----------|---------------------------------|-------------|--------------------------------------|--|------------------------|----|------------------------|
| A | Measuring Range | A3 | 1000 mm | I | Communication Output 1 | I1 | RS485 (MODBUS RTU) |
| | | A4 | 2000 mm | | | IX | NA |
| | | A5 | 3000 mm | Note: RS485 communication output is only available in 4 wire 24V DC Power Supply version. | | | |
| | | A6 | 6000 mm | K | Electronics Location | K1 | Integral (Local) |
| | | A7 | 12000 mm | | | K2 | Remote |
| | | A8 | 15000 mm | L | Remote Cable Length | L1 | 5 Meter |
| | | A9 | 20000 mm | | | L2 | 10 Meter |
| | | LX | NA | | | | |
| C | Electronics Area Classification | C1 | Field Mount Weather Proof IP67 | M | Process Connection | M2 | 1½" BSP (M) |
| | | C2 | Flameproof (CMRI IIA IIB Certified) | | | M3 | 2" BSP (M) |
| D | Power Supply | D2 | 24 V DC (+/- 10%) | | | M4 | 2" PVC Flanged |
| | | D5 | 24V DC Two Wire Loop Powered | | | M5 | 2" SS316 Flanged |
| E | MOC Electronics Enclosure | E1 | Die Cast Aluminium | | | M6 | 50 NB SS316 Tri Clover |
| | | E2 | SS316 | | | MY | Other |
| | | E3 | ABS Plastic | | | | |
| F | Electrical Connection | F1 | M 20 x 1.5 (F) | O | MOC Probe/ Transducer | O5 | PVDF |
| | | F2 | ½" NPT (F) | | | O6 | Aluminium |
| | | F3 | DIN 43650 / Circular Metal Connector | | | | |
| H | Output (Any one) | H1 | 4 to 20 mA | Note : • Due to our continuous product revisions, design specification and model numbers are subject to change without notice. | | | |
| | | H2 | 4 to 20 mA with HART | • Accuracy defined at Lab Conditions. | | | |
| | | HX | NA | • For other requirement please consult factory. | | | |

ELECTRONET EQUIPMENTS PVT. LTD.

Factory Address:

Plot No. 8, (SEZ) Phase 1, Kesurdi MIDC,
Khandala, Dist.- Satara
Pin: 412 801, Maharashtra, India.

Registered Office:

Plot No. 84, 85, 86, Tiny Industrial Estate,
Kondhwa Budruk,
Pune-411 048, Maharashtra, India.



+91-20-26931476/2039



ho@eeplindia.com



+91-20-26934122



www.eeplindia.com



Tel: 55 21 3575-3700 | www.use.com.br