ACTSONIC

GENERAL

LU500/LU1000/LU1500 Ultrasonic level monitor is a small but high-cost-performance level monitor in using of ultra sound. It has a compact and clean body made of polypropylene. It is suitable for the level management of pure water and /or chemical substances. It's 4 to 20 mA DC current/ Hart output, two alarm output for high and low toring and controlling.

FEATURES

- ❏ Low cost, small, light and compact.
- ❏ Simple and clean construction made of polypropylene.
- ❏ Suitable for semi-conductor process and food industries which require non-contact level measurement of water, pure water and chemical substances.
- ❏ Superb for remote level control by 4 to 20mA DC output and HART output.
- ❏ Show level and parameters by LCD display for monitoring and date setting using key-switches.

PBT   Alumunium

SPECIFICATION

- ● Measuring range — 5.0mMax(LU500) 10.0mMax(LU1000) 15.0m Max(LU1500)
- ● Minimum output range — 0.2m
- ● Blocking distance — 0.2m(LU500) 0.2m(LU1000) 0.2m(LU1500)
- ● Ultrasonic frequency — 55kHz(LU500)(LU1000) 35kHz(LU1500)
- ● Beam angle — 5.5°(LU500)(LU1000) 3°(LU1500)
- ● Indication (Inside cover)
  - Level indication — LCD 3*16 indication
  - Indication unit — mm,cm,m
  - Parameter indication — change with key-switches
- ● Measuring accuracy
  - Indicator accuracy — ±0.2% of max. measuring range or 1mm
- ● Resolution Display — 1mm (whichever is the larger)
- ● Setting (Built-in the key -switches of power)
  - High and low alarm level
  - Current output level range
  - Number of sampling data
  - Other display units selectable
- ● Approval : Standard (without Approval)
  - Intrinsically Safe (Exia IIC T6)
  - Intrinsically Safe+Ship Approval (Exia IIC T6)
  - Intrinsically Safe+Flameproof Approval (Exia IIC T6)

- ● Output function
  - Level signal — 4 to 20mA DC/HART Max.load resistance:500W Resolutio:±0.1mA
- ● Maximum Transmission — 3000M
- ● Supply voltage — 12 to 36 VDC
- ● Power consumption — Approx. 3W
- ● Ambient Temperature — -20 to +70°C (Temperature Compensation Fully Compensated)
- ● Pressure — -0.2.....3bar
- ● Storage temperature — -30 to +80°C
- ● Material
  - Body — PP/PTFE
  - Housing — PBT/Alumunium/SUS316L
- ● Installation Thread — G1-1/2A/G2A thread
- ● Enclosure — IP67
- ● Memory back up — EEPROM(for set parameters)
- ● Integration time — 0-99sec,Adjustable

Dimensional Specifications

S/A/C Type : Housing
Material : PBT/Aluminium/316L

I Type : Aluminium (two chamber)

LU500

LU1000

LU1500

Wire Wiring Diagram
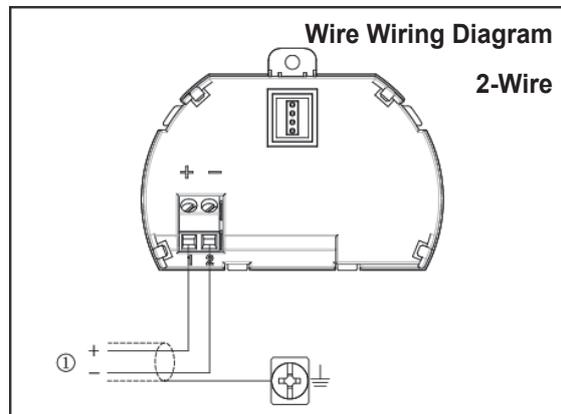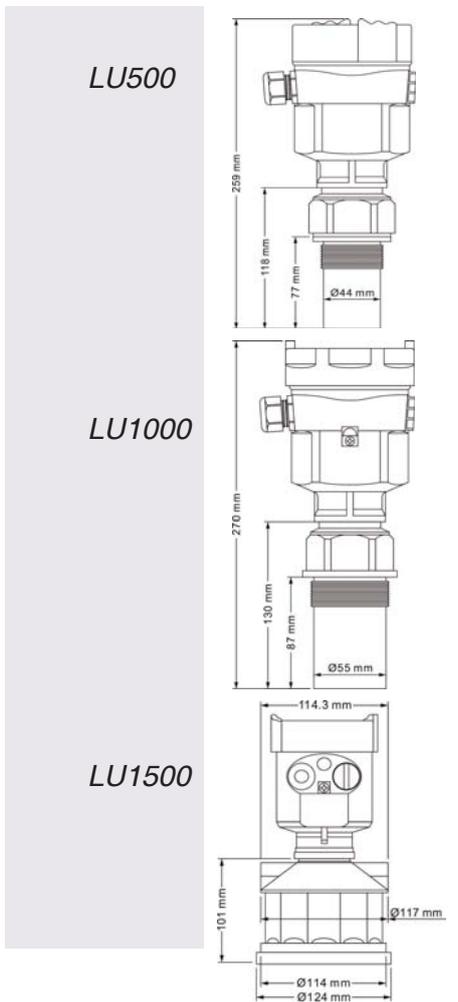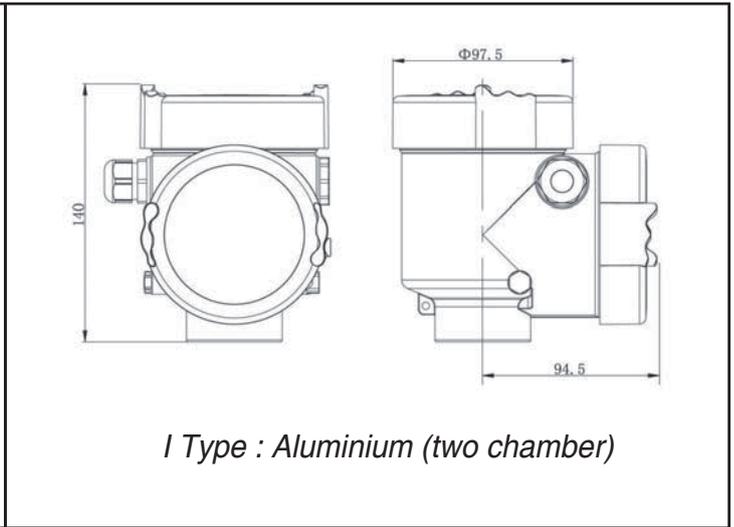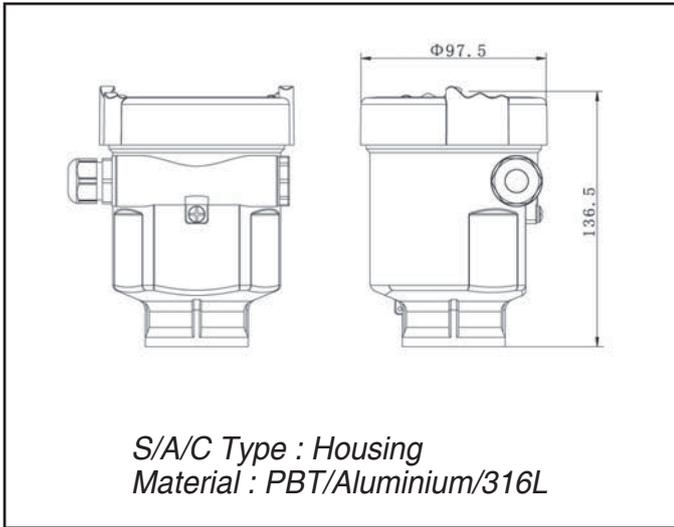
2-Wire

2-Wire Wiring Plan Used for HART
1) Power Supply and Signal Output
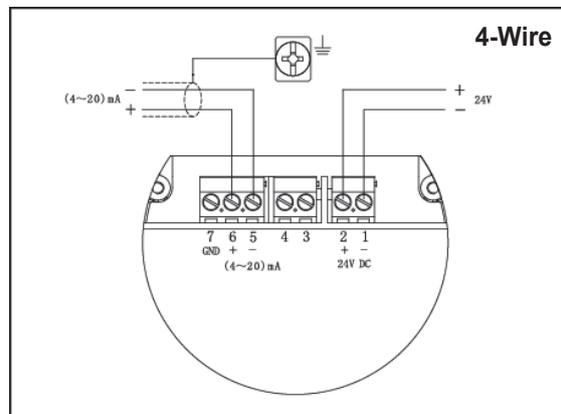
4-Wire

4-Wire Wiring Plan Used for HART
1) Power Supply
2) Signal Output
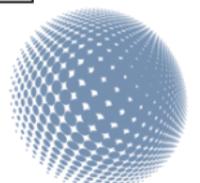
ULTRASONIC LEVEL MONITOR
LU500/LU1000/LU1500 Series

ACTSONIC

Model selection guide

LU500-X-X-XX-X-X-X-X
                    0-5M
LU1000-X-X-XX-X-X-X-X
                    0-10M

▇ Explosion Proof Approval
              P Standard(without Approval)
              I   Intrinsically Safe(Exia IIC T6)
▇ Material/Process Temperature/Protection
              A (PVC)/-40°C~70°C/IP67
              B (PTFE)/-40°C~90°C/IP67
▇ Process Connection
              CP Thread G1-1/2A
▇ Electronic
       C 4-20mA/HART
       D 4-20mA/24V/HART(4-wire)
▇ Housing/Protection
              S PBT/IP67
              A Alumunium/IP67
              C SUS316L
▇ Cable Entry
        M M20*1.5
        N 1/2NPT
▇ Display/Programming
              A YES(LCD Display)
              X NO

LU1500-X-X-XX-X-X-X-X
                    0-15M

▇ Explosion Proof Approval
              P Standard(without Approval)
              I   Intrinsicaiil Safe(Exia IIC T6)
▇ Material/Process Temperature/Protection
              A (PVC)/-40°C~70°C/IP67
▇ Process Connection
              FL Flange
              DJ Swivelling Holder
▇ Electronic
       C 4-20mA/HART
       D 4-20mA/24V/HART(4-wire)
▇ Housing/Protection
              S PBT/IP67
              A Alumunium/IP67
              C SUS316L
▇ Cable Entry
        M M20*1.5
        N 1/2NPT
▇ Display/Programming
              A YES(LCD Display)
              X NO