

WESS GLOBAL Beyond Measurement

Product Catalog

• Sludge Blanket Level Meter

- Sludge Density Meter
- Level Meter
- Flow Meter
- Water Quality Analyzer

WESS Global, Inc. www.wessglobal.com E-1904

Ultrasonic Sludge Blanket Level Meter

ENV100 SERIES



The ENV100 Series utilizes enhanced ultrasonic technology to measure the sludge interface level in various types of clarifiers, settling tanks and thickeners with superior accuracy and reliability.

Applications
. WWTP / WTP

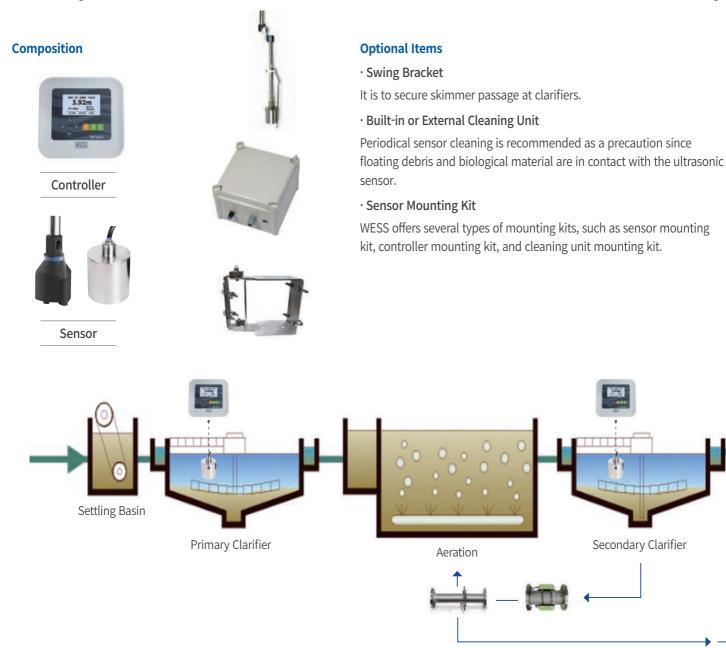
· Purification plant

· Industrial waste water treatment plants

(Power Plant, Steel Mill, Semiconductor, Petrochemical, Food&Beverage)

Features

- \cdot High temp. & chemical resistive sensor
- · Implementation superior signal control and tracking algorithms
- · Light and heavy layer level measurement with dual frequencies
- · Abnormal signal filter



Ultrasonic Sludge Density Meter

ENV200 SERIES

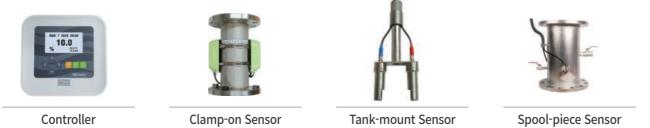
((🕼

The ENV200 Series is an ultrasonic instrument that measures the density of suspended solid in various liquids. The density meter works with three types of sensors, clamp-on, spool-piece, and tank mount.

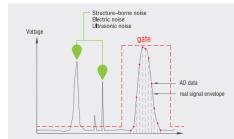
Features

- · Stable & continuous measurement
- \cdot Adopt enhanced signal control algorithm (EEAM)
- \cdot Various types of sensors to accommodate all field demands at installation
- · Offer several density units, %, g/l, ppm, kg/m³, g/cm³
- · Offer non-intrusive sensor, clamp-on

Composition



Measuring Algorithm



EEAM (Envelope Energy Averaging Method)

Conventional ultrasonic attenuation density meter just determines density with amplitude of received signals. Unlike this, ENV200 is able to measure change of concentration in a more sophisticated manner by adopting the patented EEAM, which measures not only the amplitude of received signals but also observes the shape of signal. It takes all energy as envelope and then convert it into density.

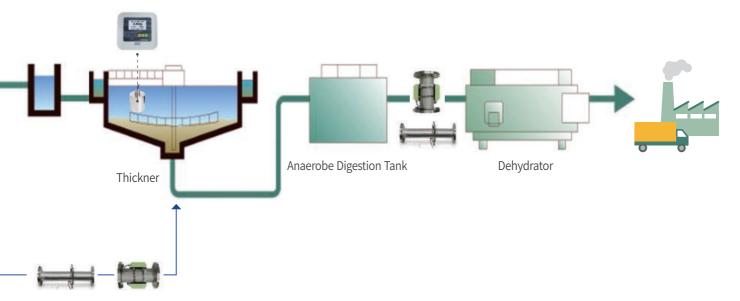
Applications

· Steel mill

· WWTP / WTP · Purification plant

· Food & Beverage

· Power plant · Pulp & Paper



Clamp-On Ultrasonic Density Meter

ENV200 SERIES

The clamp-on type density meter doesn't need by-pass line or spool-piece(pipe section) which is required for maintenance or replacement. As the clamp-on sensor can be mounted outside of pipe line even under flow-running condition, the user neither need to stop their process nor to consider the corrosiveness of liquid.

Features

No Maintenance

- · No sensor cleaning is required for sludge adhesion on sensor surface
- \cdot No sensor replacement is required for wear and tear by flowing medium

No Limit on Measuring Medium

· Can apply to almost all types of sludge regardless of abrasion, adhesion, and corrosion

No Additional Cost

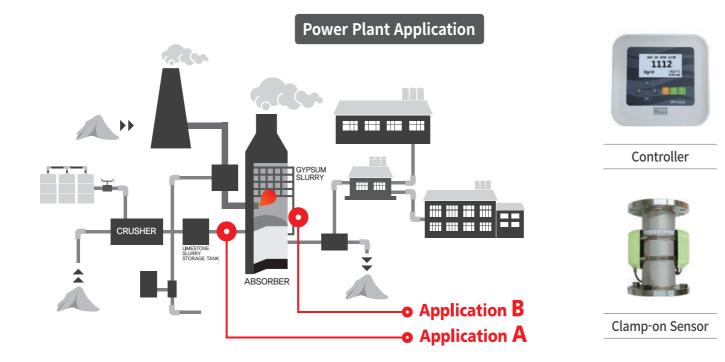
- · No additional water pipe line is required for sensor cleaning
- \cdot No by-pass line is required for maintenance

No Space and Tool

- \cdot No special equipments and tools are required during installation
- \cdot Can be applied at limited space

Applications

- \cdot WWTP / WTP
- · Purification plant
- · Power plant
- · Plup & Paper
- · Steel mill
- · Food & Beverage





Level Measurement

Ultrasonic Level Meter

LEV SERIES

C E []

The LEV100 Series utilizes enhanced non-contact ultrasonic technology to measure liquid level in various applications with superior accuracy and reliability.

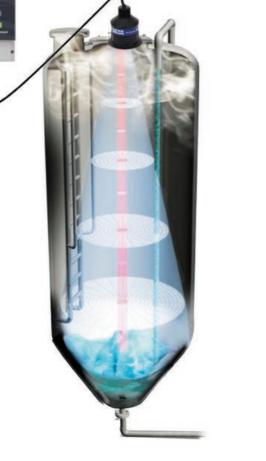
Features

- \cdot Single and dual channel measurement
- · Possible for two tanks control simultaneously
- Various types of sensor depending on measuring range (10m, 15m, 30m)
- · LCD Display of measuring status including numeric, echo, data trend, and parameter

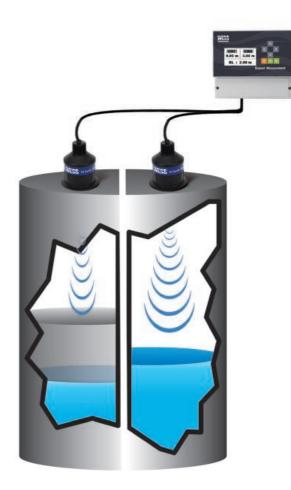
Applications

- · WWTP / WTP
- Purification plant
- · Industrial waste water treatment plants

(Power plant, Steel mill, Semiconductor, Petrochemical, Food & Beverage) • Various storage tanks



Single Channel



- Display Differential Levels and Average

R Flow Measurement

Clamp-On Ultrasonic Flow Meter

FLO100 SERIES

- \cdot Non-invasive flow meter
- \cdot Suitable for conductivity liquids
- \cdot Various types of sensor depending on pipe size and condition
- \cdot WWTP, chemical, pharmaceutical, etc.



Controller

Sensor

Open Channel Non-contact Radar Flow Meter

FLO200 SERIES

FLO200-R

- · Non-contact radar flow meter
- \cdot Simultaneous measurement of water level & flow rate
- · Minimize impact on pollutants
- · Easy installation and maintenance
- · Sewage, manhole, etc.

FLO200-U

- \cdot Open-channel flow meter
- · Various types of sensor depending on measuring range
- \cdot User-feed curve programming
- · Applicable to various weirs and flumes

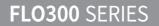




Controller

Sensor

Electromagnetic Flow Meter



- · Compact type / Remote type
- · Possible to measure low in low conductivity, even with a content of suspended solids
- · Suitable for most industrial applications



Water Measurement

Water Quality Analyzer

WA SERIES

- \cdot Available in single and dual channel
- \cdot Self sensor configuration (Plug & Play)
- \cdot Pre-calibrated at the factory
- \cdot Min. two relay outputs (Alarm relay & Self cleaning relay)
- \cdot Self-diagnostics for the sensor and controller
- · Back-lit LCD display
- \cdot Easy to setup and program





pH / ORP

Embedded electronics

- Include a built-in electrically isolated preamp and temperature compensation circuitry

Custom geometry

- Enable easy cartridge changes, short downtimes, and facilitate the integrated jet clean

Field proven cartridge

- Flat glass / double reference offer long-lasting reliable measurement



SS / MLSS

Near-infrared technology

- Provides increased dependability of the reading when color changes in the solids occur

Solid state electronics

Custom geometry

- Facilitate the integrated jet clean



Dissolved Oxygen

Optical fluorescent technology

- No sensor caps, no routine calibration
- No replaceable membranes or electrolyte
- Low maintenance and inherent reliability



Turbidity

Nephelometric turbidity - Robust and waterproof (IP68)

- Ultra low-power consumption
- Very few maintenance and no consumables



Ultrasonic Sludge Blanket Level Meter

Ultrasonic Sludge Density Meter





WESS Global, Inc. TEL +82-41-584-8820 FAX +82-41-584-8840 WEB www.wessglobal.com EMAIL sales@wessglobal.com