# **Ultrasonic Suspended Solid Monitoring System**



WESS ENV-200 is an ultrasonic instrument measuring the density of suspended solid in liquid. It includes 4 probes, a controller, and a junction box. ENV-200 also provides clamp-on type probes which enables the field operator to install the probes without changing pipe sections. This indeed saves installation and maintenance costs.

ENV-200 is adopting patented EEAM (Envelope Energy Average Method) that saves the envelope of reception signal and then calculates its energy, rather than uses the amplitude change of reception signals. It also adopts STMRT(Single Transmission Multi Reception Technology) to maximize measurement stability.

#### **Product Features**

- Continuous measurement
- Multiple reception transducers
- 10,000 points Data Logging & Trend Mode
- EEAM(Envelope Energy Average Method)
- Spool-piece and tank-mount probe types
- In-situ measurement and calibration
- Selectable display units(ppm, mg/l, %)

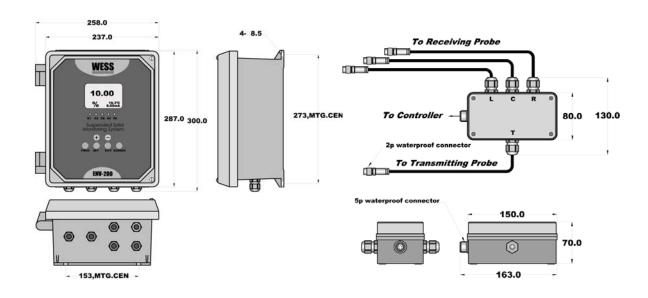
#### **Application Industry**

- Water, wastewater treatment
- Pulp and paper
- Food and beverage
- Chemical
- Mining



# **Product Dimensions**

# **Electronic Device and Junction box**



# Spool-piece and Tank-mount type probes

Probe's size is determined after consultation with us. The drawings below are probe types in general applications





# **Product Specifications**

#### **Electronic**

Measuring Ranges  $2,000 \sim 200,000 \text{mg/l} (0.2 \sim 20\%), 400,000 \text{mg/l} (\text{option})$ 

**Resolution** 100mg/l (0.01%)

Accuracy ± 5% of reading or ±5000mg/l, whichever is greater

Repeatability ± 1% of reading

Operational Temperature  $-20 \sim 60^{\circ}\text{C}(14\sim140^{\circ}\text{F})$ 

Outputs

Current Output :  $4\sim20$ mA, nom. Load  $250\Omega$  (load range :  $100\sim750\Omega$ )

Relay Output: 3 SPDT(5A, 250VAC) - "ER" "R1" "R2"

Digital Output: RS232C(Standard), RS485 or Profibus-DP(option)

**Power Supply** 

Standard: 86 ~ 260V AC, 50~60Hz, ≤15W

Option: 24V DC ± 10%

Enclosure Material Body/Cover: FRP

Window: Polycarbonate

**Dimension** W 237 x H 291 x D 138mm

Mounting Hole center W 153 x H 273 mm( $\emptyset$  8.2 x 4ea)

Weight 3 kg
IP Rating IP67

Certificate CE, NRTL(Pending)

#### **Probe**

Material S.S. 316
No. of probe 4 pieces
Cable Length 10m(33ft)

(Junction box to controller) Max. 100m extensible

Operational Temperature  $-50 \sim 100^{\circ}\text{C}(-58 \sim 212^{\circ}\text{F})$ 

Weight Depends on pipe diameter(spool-piece, clamp-on)

3.5kg(tank-mount, Junction box included)

IP Rating IP68
Cleaning Option



#### **ENV-200 Series**

#### **Junction Box**

Material BASF-GF22(ABS) **Operational Temperature** -10 ~ 80°C(-58~212°F) Dimension W 80 X H 150 X D 70mm

Weight 800g

**IP Rating** IP65, IP68(option)

Mounting Hole center W 60 X H 130mm (M6 X 4 pcs)

**Electric Connection** 

Probe 2-pin waterproof connector [20m(65ft) waterproof] (IP68 option) Controller 5-pin waterproof connector [30m(100ft) waterproof] (IP68 option)

# **Ordering Code**

#### Control Device C2 -



	Power Requirement						
	Α	AC86~260V					
	D	DC24V					
		Communication					
		2	RS232 Standard				
		4	RS485				
		Ρ	PROFIBUS				
C2 -							

## Probe & Option S2-



	Probe Type									
	S	Sta	Stainless Steel 316							
	Ρ	P۷	PVC							
	С	Cla	Clamp-on							
		Junction Box Protection								
		5	IP65							
		8	IP68							
			Cable Length(from Junction to Controller							
			S	S Standard 10m(33ft)						
			***	*** Type total length required						
			Cable Length Unit							
				F Feet						
				M Meters						
					Pipe Standard ( spool-piece type)					
					Α	ANSI				
					D	DIN				
					J	JIS				
						Spool-piece Information				
						ID, OD, Material Etc.				
S1 -										

