

## GENERAL

**ALIASONIC** AUF790 Series is a fixed mounted, Open Channel ultrasonic flowmeter, with clamp-on transducer used for non-invasive measurement. Our microprocessor based, user friendly, field programmable flow measurement technique allows no interruption of the process flow and has low installation costs.

## FEATURES

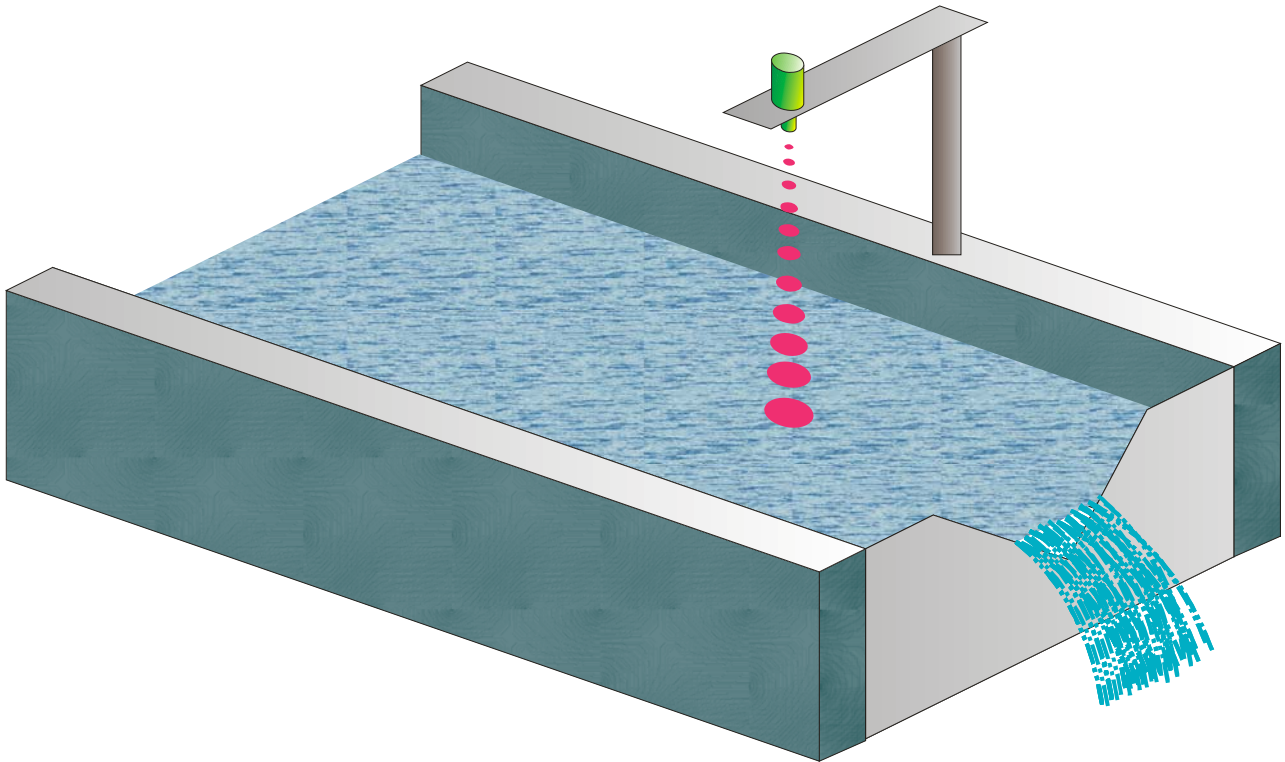
- ❑ 4 line LCD display with flowrate, totalizer & Level condition
- ❑ V-notch, rectangular with and without end contractions, Cipolletti.
- ❑ Parshall, Palmer-Bowlus, Leopold-Lagco, trapezoidal, H.
- ❑ A sampler relay will signal your sampler to collect flow proportion
- ❑ High accuracy of +/-0.8% of reading
- ❑ Non-contact flow measurement
- ❑ Exclusive sensor for open channel flow
- ❑ Response time less than 1 second



## STANDARD SPECIFICATION

- Measuring Principle : Ultrasonic Sound
- Measuring Range :
  - Level : 0-3 Meter
  - Flow Rate : 0-10,000 m3/Min
- Accuracy : +/-0.2% of Full Scale
- Repeatability : +/-0.1% of reading
- Material
  - Ultrasonic Tube : ABS
  - Sensor Head : Polyurethane
  - Housing : ABS (Separate Version)
    - : Low copper cast aluminum alloy with polyurethane ( Compact Version)
- Display : 4 Line LCD with illumination (Separate Version)
  - : 2 Line LCD with illumination (Compact Version)
  - Flowrate : 5 digits with decimal point
  - Totalizer : 8 digits
  - Level : 4 digits
  - Flow Engineer Unit : M3, Liter
  - Level : Meter
  - Time Unit : Second, Hour
  - Other : Signal condition
- Formula : V-notch, Parshall, Palmer-Bowlus
  - : rectangular, Cipolletti, Leopold-Lagco
- Sensor Frequency : 40KHz / 1KHz
- Low Level Cutoff : 0.005 ~ 0.2 Meter
- Dead Band : 0.25 - 0.5 Meter
- Bean Angle : 6 °
- Keypad : 4 Key with tactile action
- Response Time : Less than 1 second
- Ambient Temperature : -20 ~ +60 °C
- Mounting : G2"
- Max. Cable Length : 50 M
- Power Consumption : Less than 3W
- Power Supply : 90 ~ 260Vac, 50/60 Hz or 15-36Vdc
- Data Storage : Operation parameters and totalization date are stored by EEPROM for more than 10 years
- Output : 4-20 mA
- Pulse Output : 1- 9999 Hz (Separate Only)
- Alarm : High/Low
- Communication : RS-485 (modbus)
- Dimensions : Compact 125mm(W)\*230mm(H)\*170mm(D)
  - : Separate 240mm(W)\*210mm(H)\*120mm(D)
- Weight : 3.5 Kg(compact), 2.2 Kg(Separate)
- Enclosure : IP65
  - : Explosion Proof, EX d (ia) II B T4

**INSTALLATION**



**MODEL SELECTION GUIDE**

AUF790 Series					
Example 1: AUF790-AC-NN-10-NN					
AUF790-	XX-	XX-	XX	-XX	Description
Power Supply	AC-				90-260VAC
	DC-				15 - 36 VDC
Alarm		NN-			without Alarm Output
		A1-			With One Alarm Output
		A2-			With Two Alarm Outputs
		A3-			With Three Alarm Outputs
		A4-			With Four Alarm Outputs
Installation & Cable Length		NN			Compact Version
		10 ~ 50			Separate Version, Cable 10 M ~ 50 M
Option			-NN		None
			-EX		Explosion Proof, EX d (ia) II B T4 (Compact Only)
			-PO		Scale Pulse Output (Separate Only)