

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

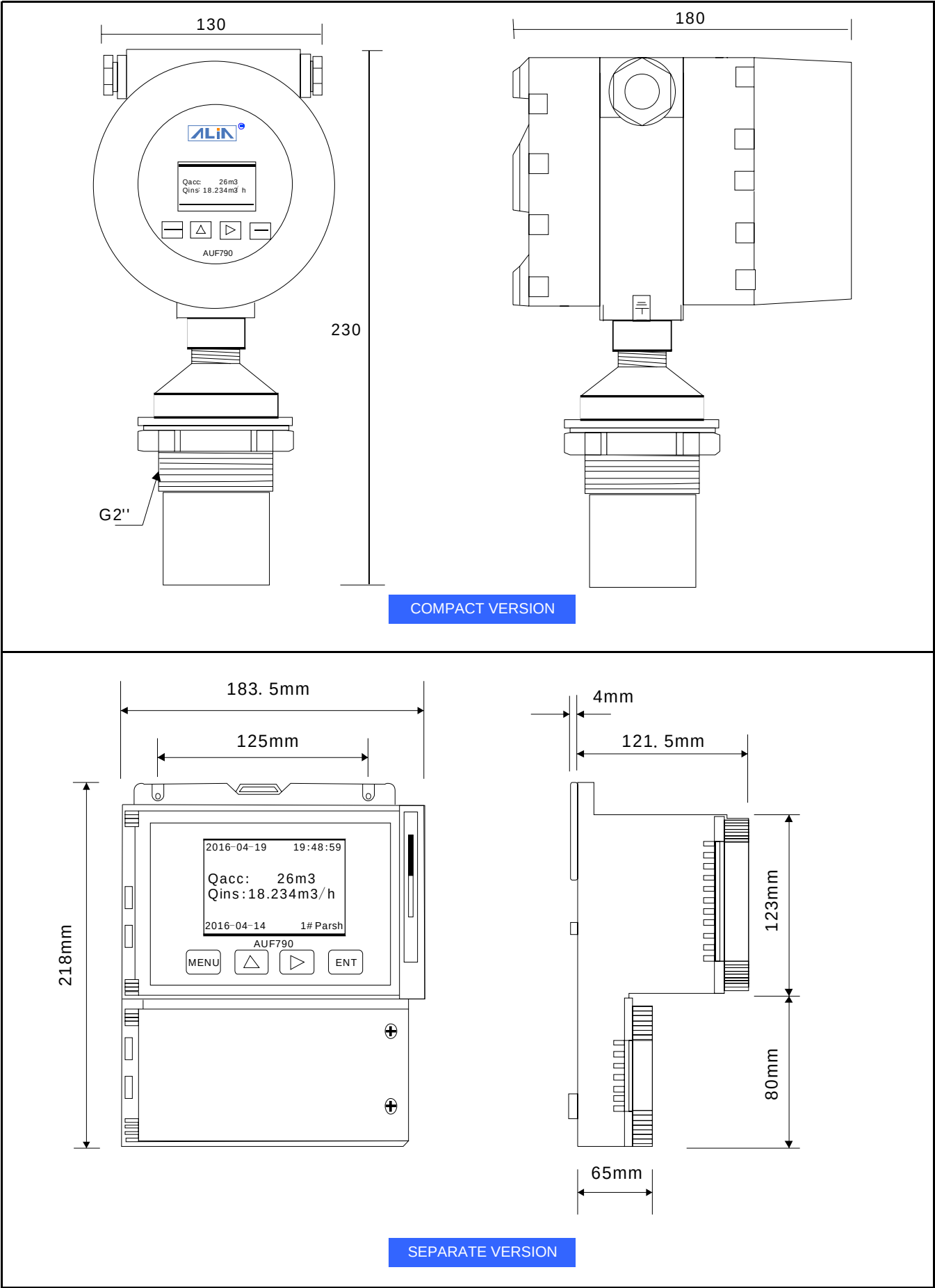
- ❑ 4 line LCD display with flowrate, totalizer & Level condition
- ❑ V-notch, rectangular with and without end contractions, Cipolletti.
- ❑ Parshall, Palmer-Bowlus, Leopold-Lagco, trapezoidal, H.
- ❑ A sampler relay will signal your sampler to collect flow proportion
- ❑ High accuracy of +/-0.25% of Full Scale
- ❑ Non-contact flow measurement
- ❑ Exclusive sensor for open channel flow
- ❑ Response time less than 1 second

STANDARD SPECIFICATION

- | | | | |
|-----------------------|--|-----------------------|--|
| ● Measuring Principle | : Ultrasonic Sound | ● Low Level Cutoff | : 0.000 ~ 1.000 Meter |
| ● Measuring Range | :
Level : 0-3 Meter
Flow Rate : 0-120000 m3/s | ● Dead Band | : 0.35 M Max. |
| ● Accuracy | : +/-0.25% of Full Scale | ● Beam Angle | : 6 ° |
| ● Repeatability | : +/-0.1% of reading | ● Keypad | : 4 Key with tactile action |
| ● Material | :
Ultrasonic Tube : ABS
Sensor Head : Polyurethane (Standard) / ETFE / PTFE
Housing : ABS (Separate Version)
: Low copper cast aluminum alloy with
polyurethane (Compact Version) | ● Response Time | : Less than 1 second |
| ● Display | : 4 Line LCD with illumination
Flowrate : 9 digits with decimal point
Totalizer : 9 digits
Level : 4 digits
Flow Engineer Unit : M3, Liter
Level : Meter / Feet
Time Unit : Second, Hour
Other : Signal condition | ● Ambient Temperature | : -20 ~ +60 °C |
| ● Formula | : V-notch, Parshall, Palmer-Bowlus
: rectangular, Cipolletti, Leopold-Lagco | ● Mounting | : G2" (Standard) / Flange end (Optional) |
| ● Sensor Frequency | : 40KHz / 1KHz | ● Max. Cable Length | : 50 M |
| ● Temp Compensation | : Built-in to compensate over temperature range | ● Power Consumption | : Less than 3W |
| | | ● Power Supply | : 90 ~ 260Vac, 50/60 Hz (4wires)
: 18-36Vdc (4wires) |
| | | ● Data Storage | : Operation parameters and totalization
date are stored by EEPROM for more
than 10 years |
| | | ● Output | : 4-20 mA
Load : Rohm=(Vdc-12)*50 W |
| | | ● Alarm | : High/Low/High-High/Low-Low |
| | | ● Communication | : RS-485 (modbus) |
| | | ● Dimensions | :
Compact : 130mm (W) *230mm (H) *180mm (D)
Separate : 183.5mm (W) *218mm (H) *125.5mm (D) |
| | | ● Weight | : 3.5 Kg (compact), 2.2 Kg (Separate) |
| | | ● Enclosure | : IP65 (ABS) / IP67 (Aluminum Alloy)
: Explosion Proof, EX d (ia) II B T4 |

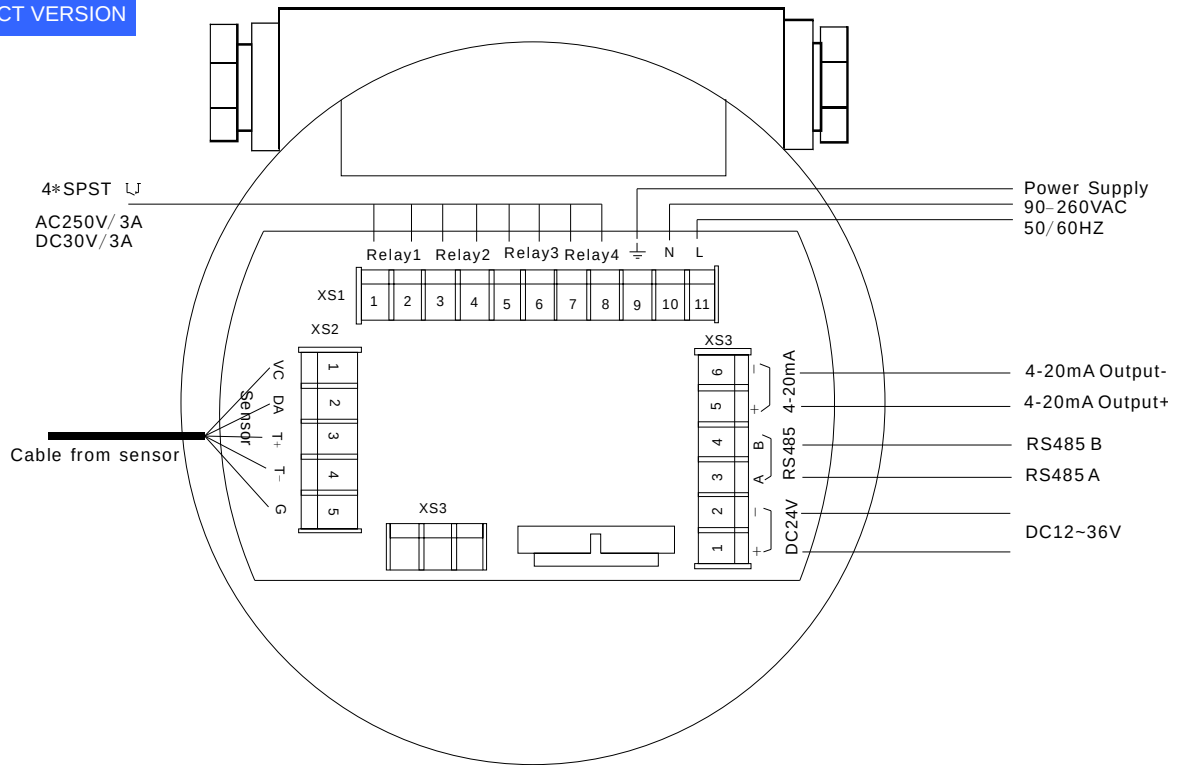


DIMENSIONS

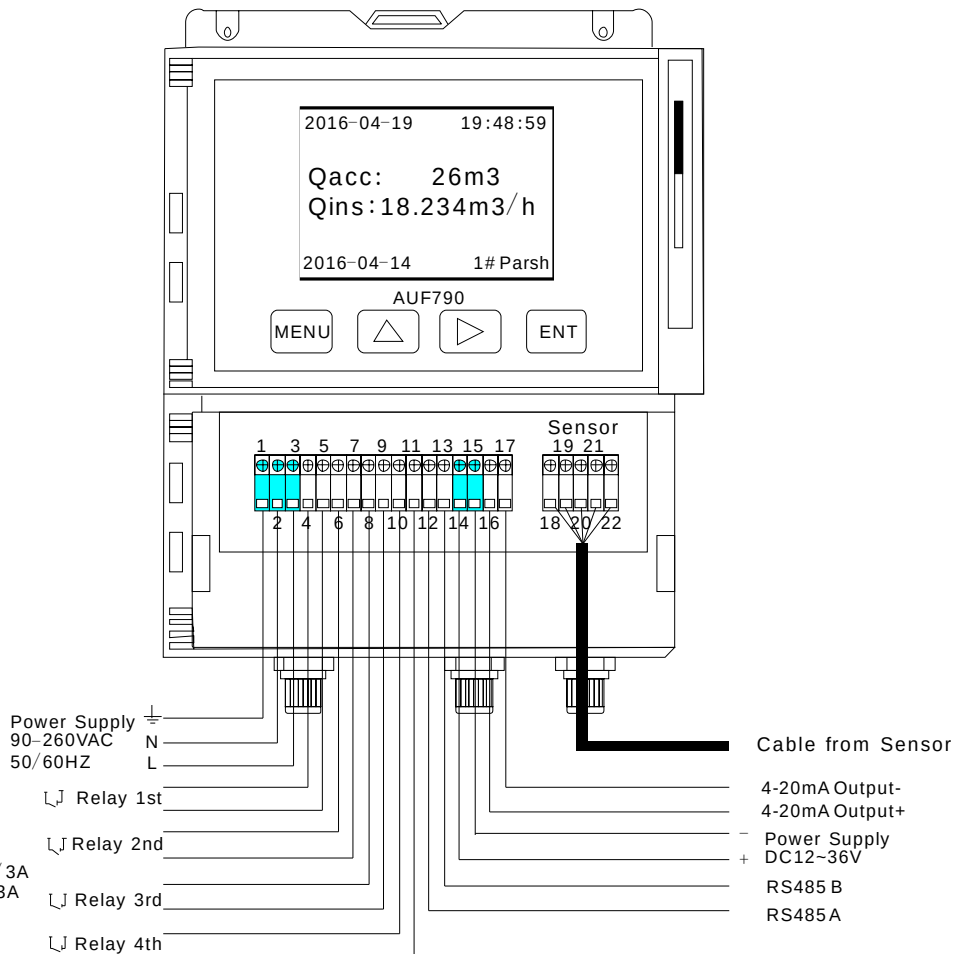


WIRING DIAGRAM

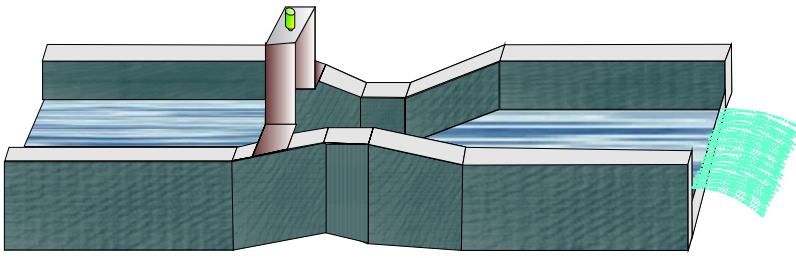
COMPACT VERSION



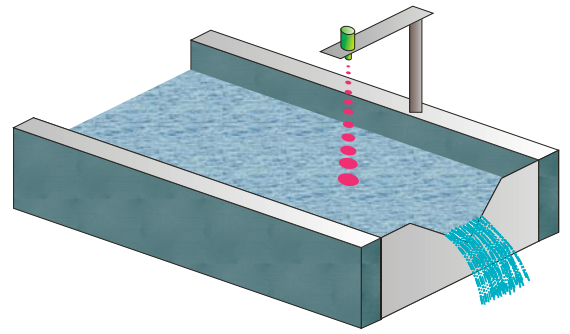
SEPARATE VERSION



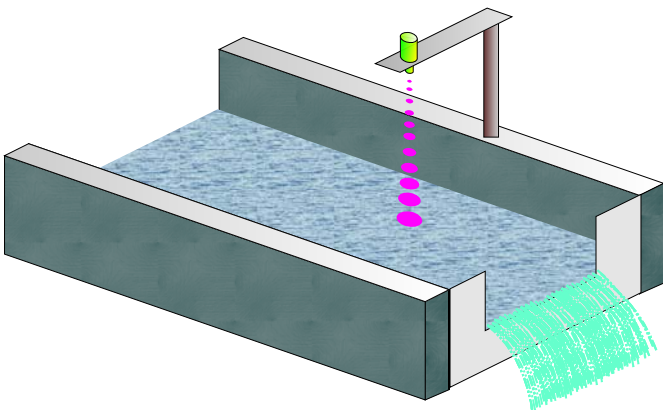
INSTALLATION



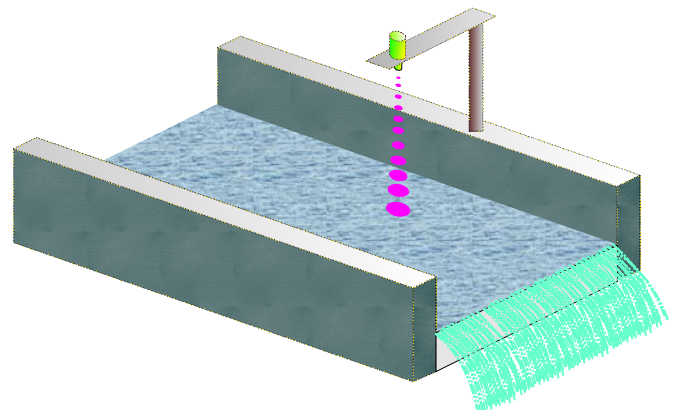
Parshall



V-notch



Rectangular



Rec Rectangular

MODEL SELECTION GUIDE

AUF790 Series					
Example 1: AUF790-E-NN-10-NN					
AUF790-	X-	XX-	XX	-XX	Description
Process Temperature & Material	N-				-40 ~ +60 °C (Polyurethane Sensor Head and ABS Tube)
	E-				-40 ~ +60 °C (ETFE Sensor Head and ETFE Tube)
	H-				-40 ~ +100 °C (ETFE Sensor Head and ETFE Tube)
	G-				-40 ~ +100 °C (PTFE Sensor Head and PTFE Tube)
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 (Aluminum Alloy Housing)
		10 ~ 50			Separate Version, Cable 10 M ~ 50 M
Option				-NN	None
				-EX	Explosion Proof, EX d (ia) II B T4 (Compact Only)