



GENERAL

ALIASONIC The 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
- Measuring Range
 - Level : 0-3 Meter
 - Flow Rate : 0-99999.999 m³/s
- Accuracy : +/-0.25% of Full Scale
- Repeatability : +/-0.1% of reading
- Material
 - Ultrasonic Tube : ABS
 - Sensor Head : Polyurethane (Standard) / ETFE / PTFE
 - Housing : ABS (Remote Version)
 - : Low copper cast aluminum alloy with polyurethane (Compact Version)
- Display : 4 Line LCD with illumination
 - Flowrate : 8 Digits with decimal point
 - Totalizer : 9 Digits
 - Level : 4 Digits
 - Flow Engineering Unit : m³, Liter
 - Level : Meter / Feet
 - Time Unit : Second, Hour
 - Other : Signal condition
- Formula : V-notch, Parshall, Palmer-Bowlus
 - : Rectangular, Cipolletti, Leopold-Lagco
- Sensor Frequency : 80 kHz
- Temp Compensation : Built-in to compensate over temperature range
 - Low Level Cutoff : 0.000-1.000 Meter
 - Dead Band : 0.35 m Max.
 - Beam Angle : 6 °
 - Keypad : 4 Key with tactile action
 - Response Time : Less than 1 second
 - Ambient Temperature : -20-60 °C
 - Mounting : G2" (Standard) / Flange end (Optional)
 - Max. Cable Length : 50 m
 - Power Consumption : Less than 3 W
 - Power Supply : 90-260 VAC, 50/60 Hz (4-Wire)
 - : 18-36 VDC (4-Wire)
 - 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 Ω
 - Alarm : High / Low / High-High / Low-Low
 - Communication : RS485 (MODBUS)
 - Dimensions
 - Compact : 130 mm (W) * 230 mm (H) * 180 mm (D)
 - Remote : 183.5 mm (W) * 218 mm (H) * 125.5 mm (D)
 - Weight : 3.5 kg (Compact), 2.2 kg (Remote)
 - Enclosure : IP65 (ABS) / IP67 (Aluminum Alloy)
 - : Explosion Proof, Ex d (ia) IIB T4



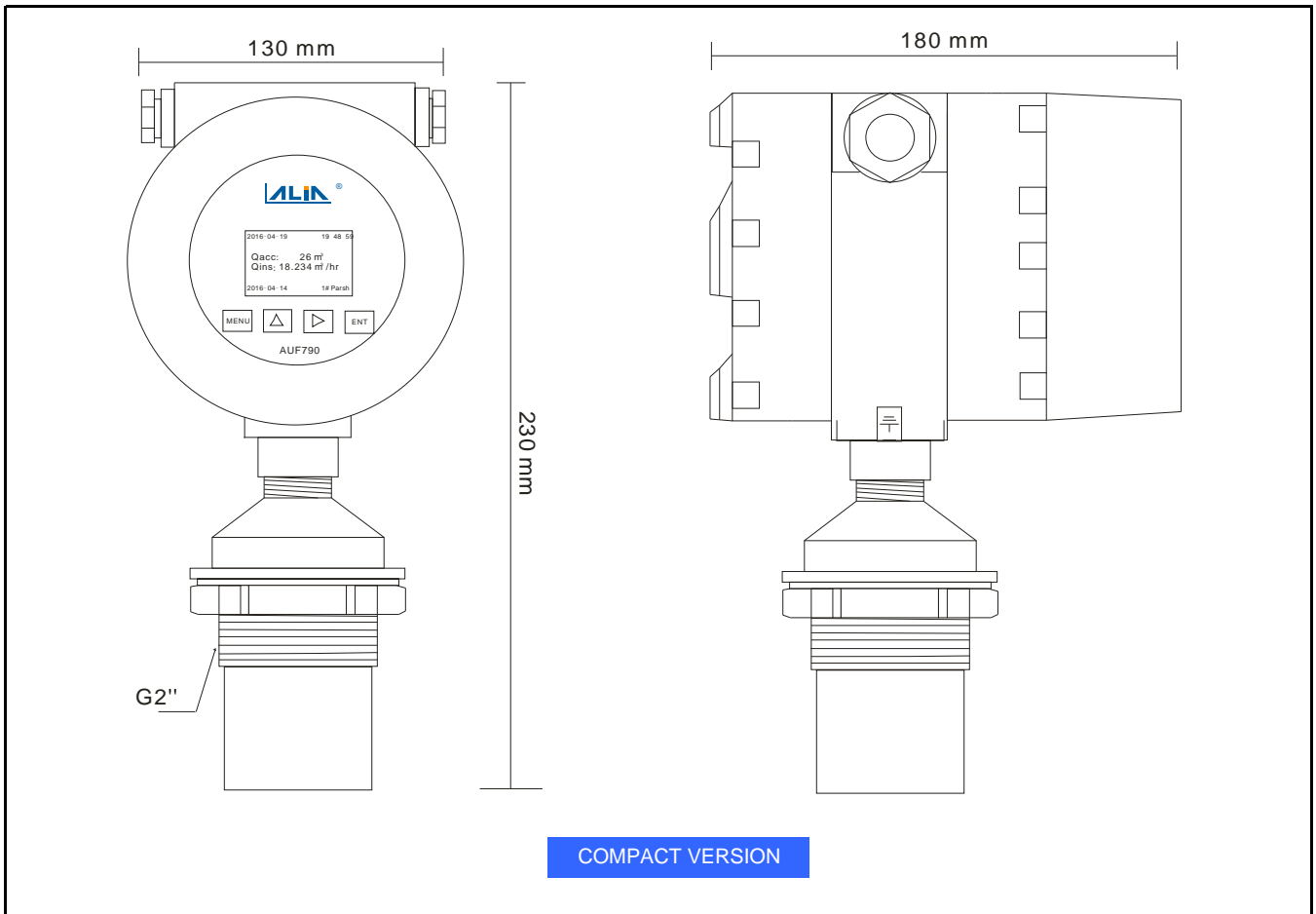
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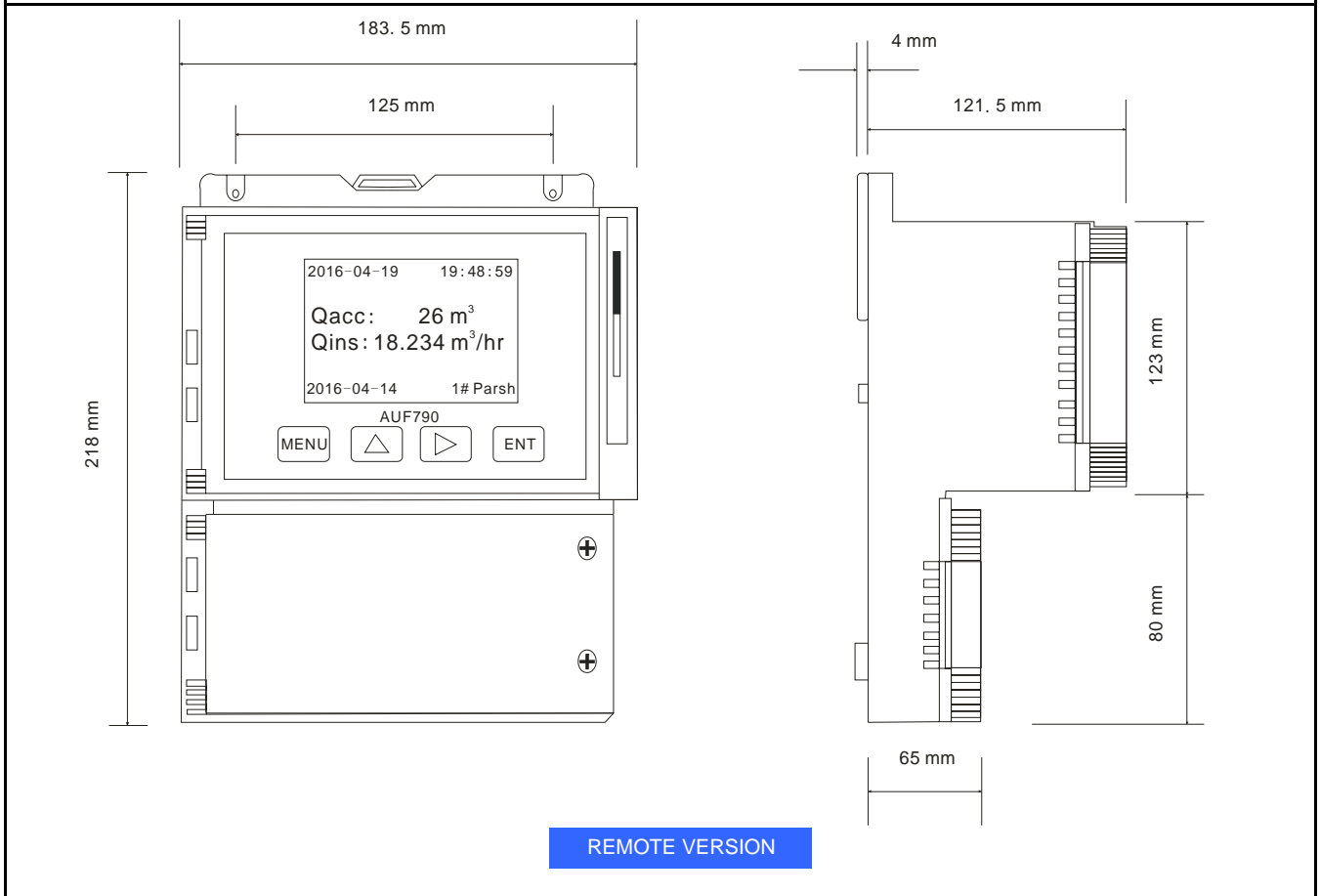


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➤ DIMENSIONS



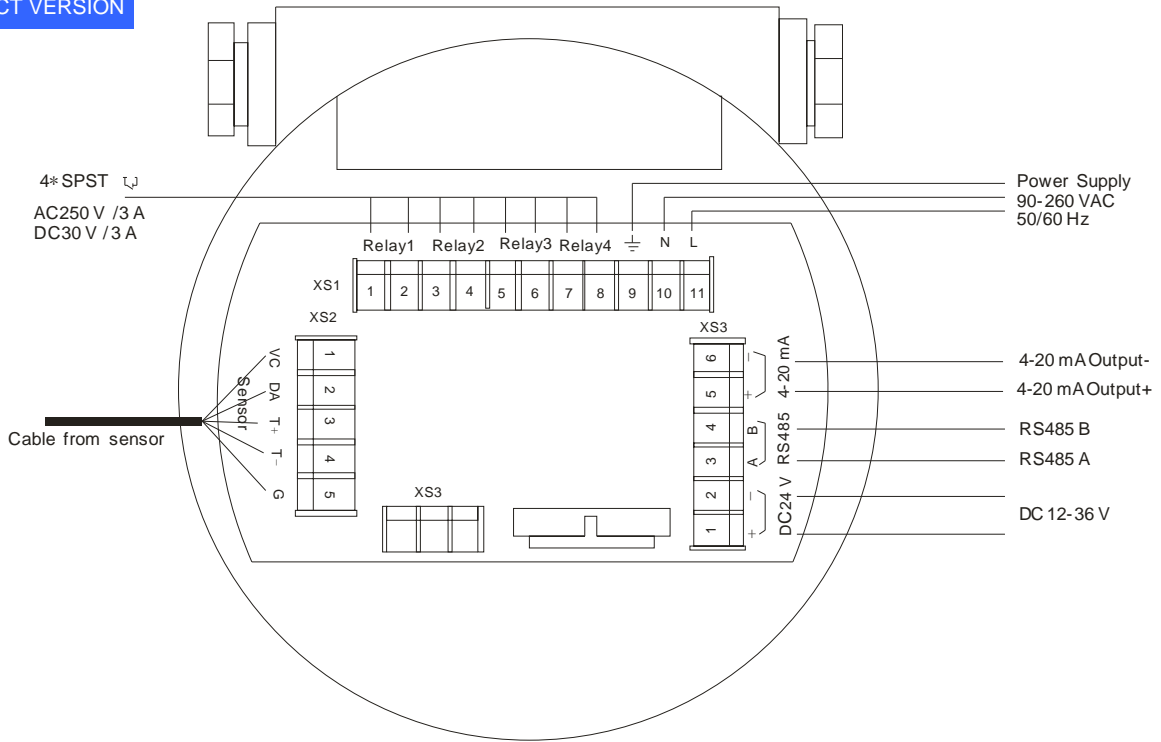
COMPACT VERSION



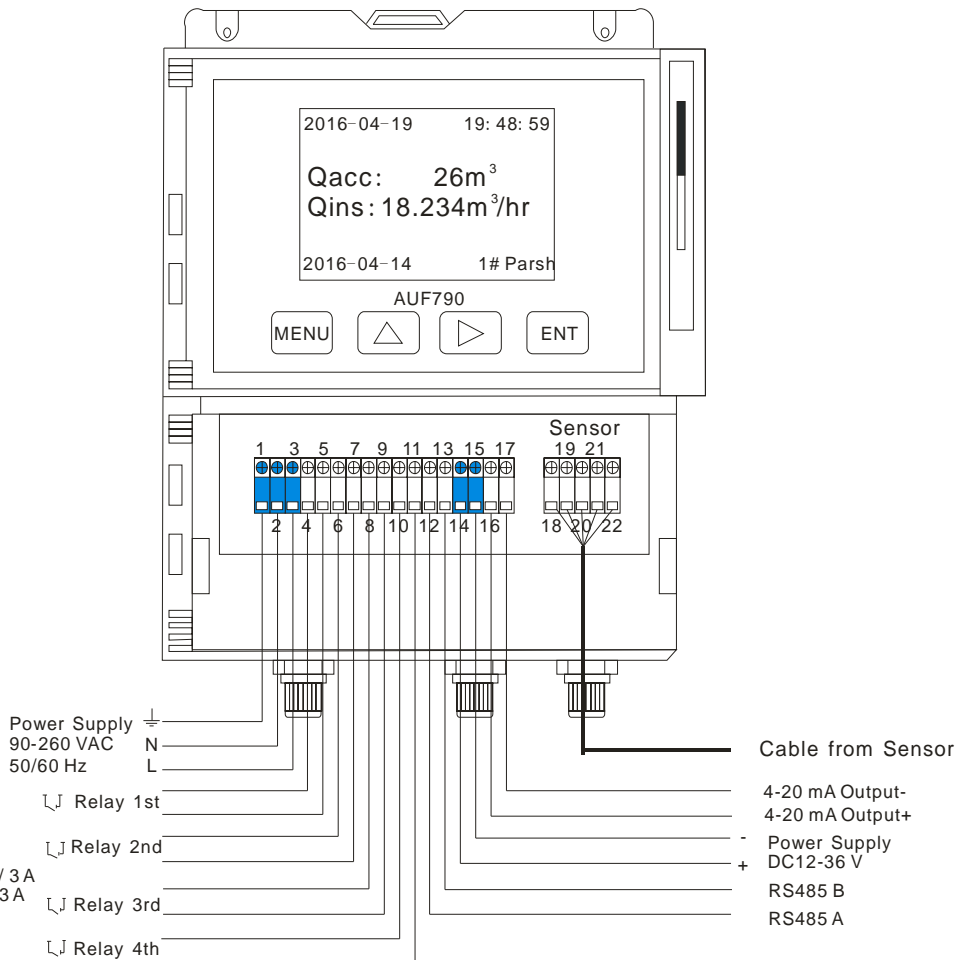
REMOTE VERSION

WIRING DIAGRAM

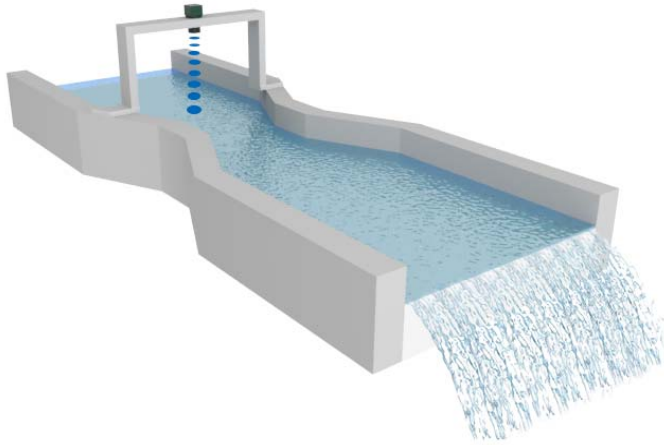
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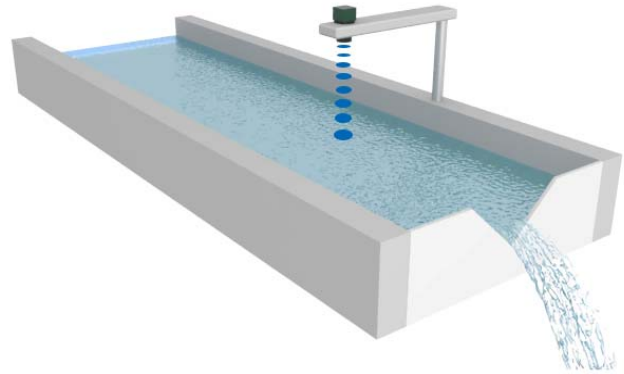
REMOTE VERSION



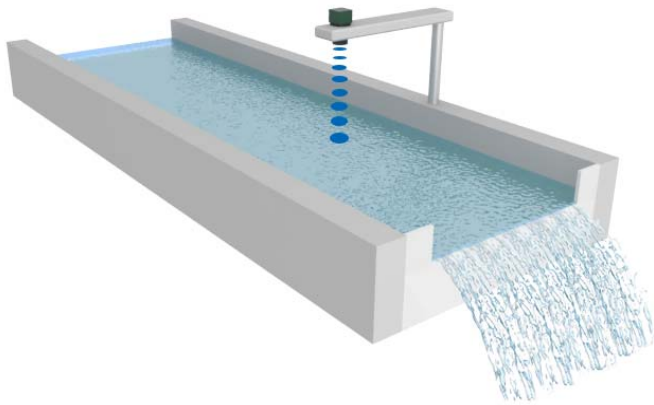
INSTALLATION



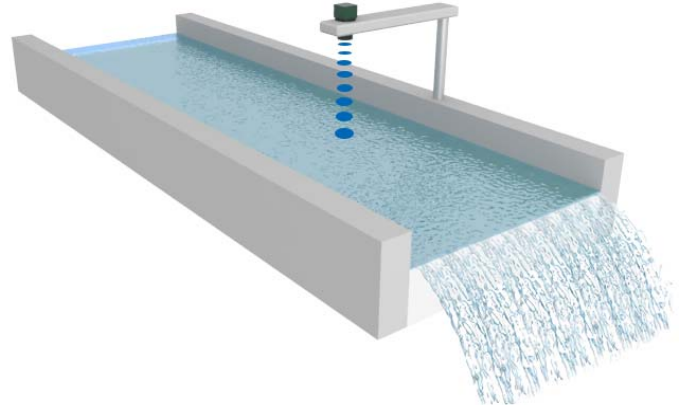
Parshall



V-notch



Rectangular



Rectangular

MODEL SELECTION GUIDE

AUF790 Series					
Example: 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		Remote Version, Cable 10-50 m
Option				-NN	None
				-EX	Explosion Proof, Ex d (ia) IIB T4 (Compact Only)