

GENERAL

ALIAMAG The Aliamag AMC310NT series converter is a microprocessor based intelligent transmitter that can be paired with any of the Alia AMF series sensors. The unit features multiple display parameters including flow rate, flow total, diagnostics, programming and troubleshooting.

FEATURES

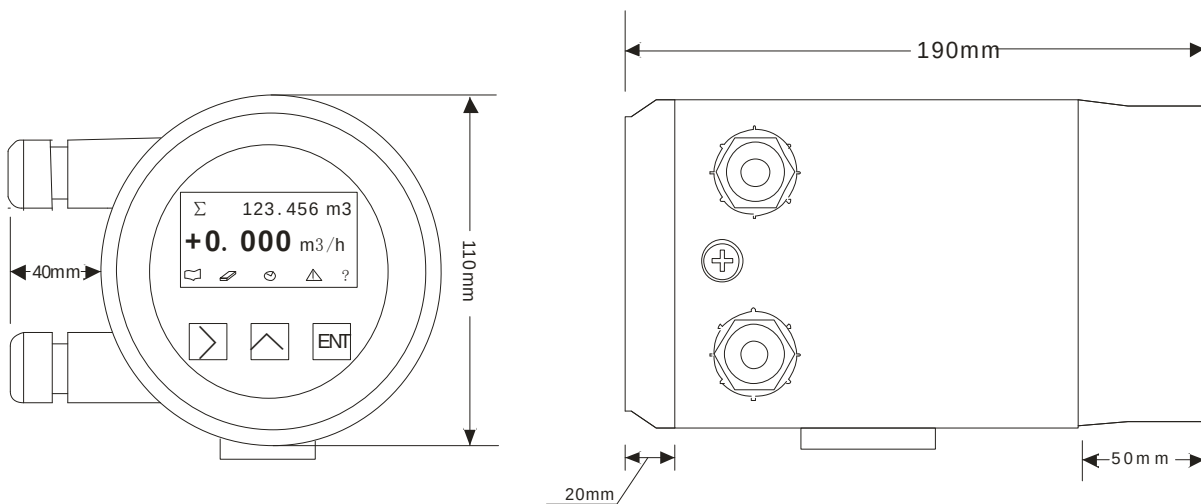
- ❑ Three line LCD display Flow Rate / Totalizer
- ❑ Accuracy of +/-0.2% value of reading
- ❑ Bi-directional flow measurement, current and pulse output
- ❑ Explosion Proof, Exd(ib)ibqllBT5
- ❑ Records up to 99 power on / off time
- ❑ MODBUS/HART communication

STANDARD SPECIFICATION

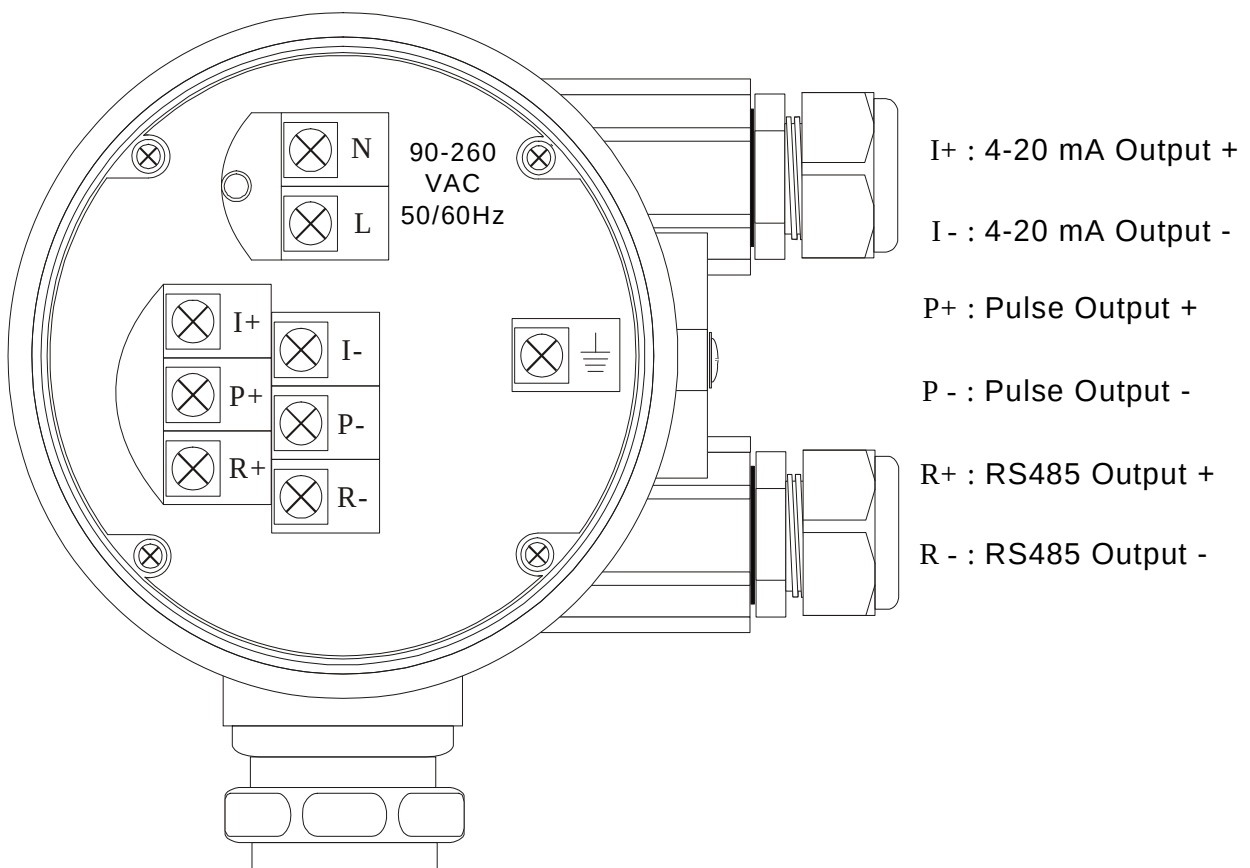


● Excitation	: DC pulsed	● Keypad	: 3 internal keys for programming and display control Remote switch instead, no need to open cover
● Display	: 3 lines LCD with illumination	● Low Flow Cutoff	: 0 to 9.9 %
Line 1	: 11 digit totalizer for forward flow : 11 digit totalizer for reverse flow : 11 digit totalizer for difference	● Data Logger Function	: 99 times flowrate records for power on/off
Line 2	: 5 digit flowrate / velocity / % / mA / HZ	● Record Data	: Date/Time when Power on/off : Flow rate when Power on/off : Totalizer when Power on/off
Line 3	: Parameter / Query / Clr tot / Query LOG Alarm, Guidance	● Damping	: 0 to 99 Seconds
Unit	: M3/H, L/H, Kg/H, T/H, L/min, M3/min, GPH : GPM, ML/H, ML/m, ML/sec	● Density Setting	: 0.1 to 9.99 g/cm3
● Measuring Range	: Min. 0 to 0.15 m/s : Max. 0 to 15 m/s	● Self Diagnosis	: The following error message are displayed if failure occurs - Coil failure - Power failure - Overranged Output - Internal error - Overflow - Empty pipe
● Accuracy	: +/-0.2% of reading (Velocity ≥ 0.5 m/s) : +/-0.001 m/s (Velocity < 0.5 m/s)	● Cable Entry	: Standard :M20 / PG11 Option:1/2"NPTF
● Repeatability	: +/-0.05% of reading	● Protection Class	: IP 67, Explosion proof, Exd(ib)ibqllBT5
● Current Output	: 4-20 mA (Isolated) Load : Max. 600 Ω	● Ambient Temperature	: -25 to +65 °C
● Pulse Output	: Open collector Rating : 3 to 30 Vdc, 20 mA Max.	● Material	: Aluminum Alloy
● Pulse Rate	: 1)Scale pulse (Pulse/M3, Pulse/L, Other) : 2)Frequency: 0-5000 Hz	● Power Supply	: 90-260 Vac, 50/60 Hz : 24Vdc +/-10% (Option)
● Pulse Width	: 50% of band width	● Power Consumption	: 3-17 W (Dependent on sensor size)
● Alarm	: High/Low with open collector output Rating : 3 to 30 Vdc, 20 mA Max.	● Weight	: 4.5 Kg
● Communication	: RS 485 (MODBUS Protocol) : HART signal (Compatible)	● Mounting	: Wall mounting : Bracket on 2" pipe
● Data Storage	: Operation parameters and totalizer figures are stored by EEPROM for more than 10 years		

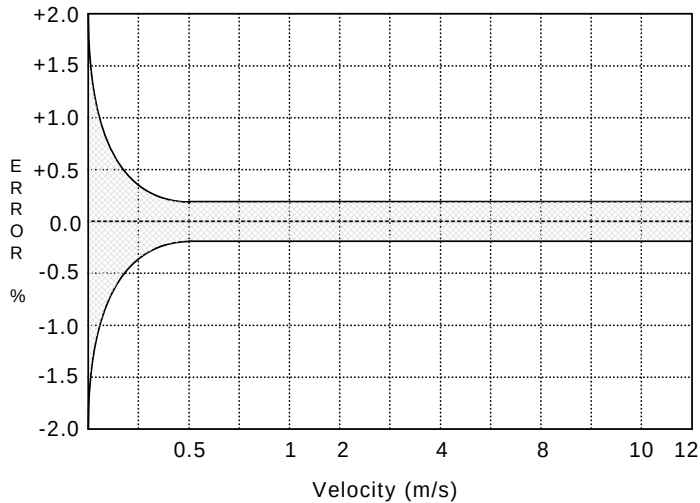
DIMENSIONS



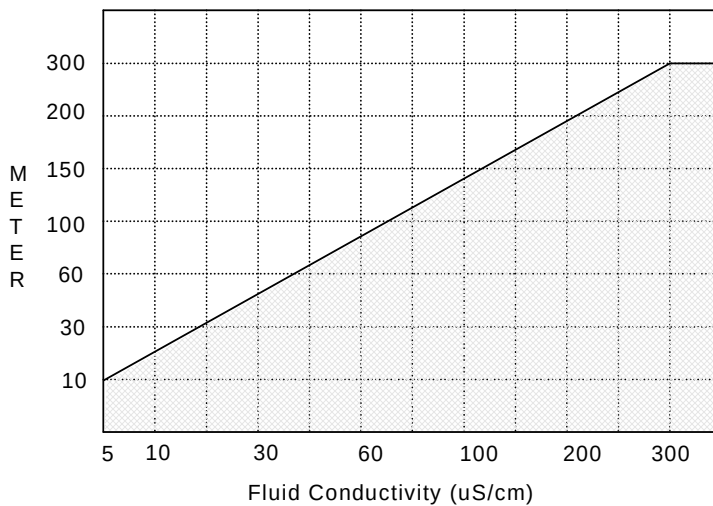
WIRING DIAGRAM



➤ ACCURACY



➤ CABLE LENGTH BETWEEN SENSOR & CONVERTER



➤ MODEL SELECTION GUIDE

AMC310NT Series						
Example:AMC310NT-AC-CP-EX-HT-NN						
AMC310NT-	XX-	XX-	XX-	XX-	XX	Description
Power Supply	AC-					90-260 Vac, 50/60 Hz
	DC-					24Vdc, +/-10%
Mounting	CP-					Compact with Sensor
	SW-					Separate, Wall Mounting
	S2-					Separate, 2" Mounting Bracket
Protection Class	NN-					IP67
	EX-					Explosion Proof, Exd(ib)ibqllBT5
Communication		NN-				RS 485 (MODBUS Protocol)
		HT-				HART Signal (Compatible)
Option		NN				None
		PT				Cable Entry 1/2" NPTF

BUILD OPTIONS-(COMPACT OR REMOTE)

