

GENERAL

ALIAMAG The Aliamag AMC2100E 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. AMC2100E series converter with temperature / energy.

FEATURES

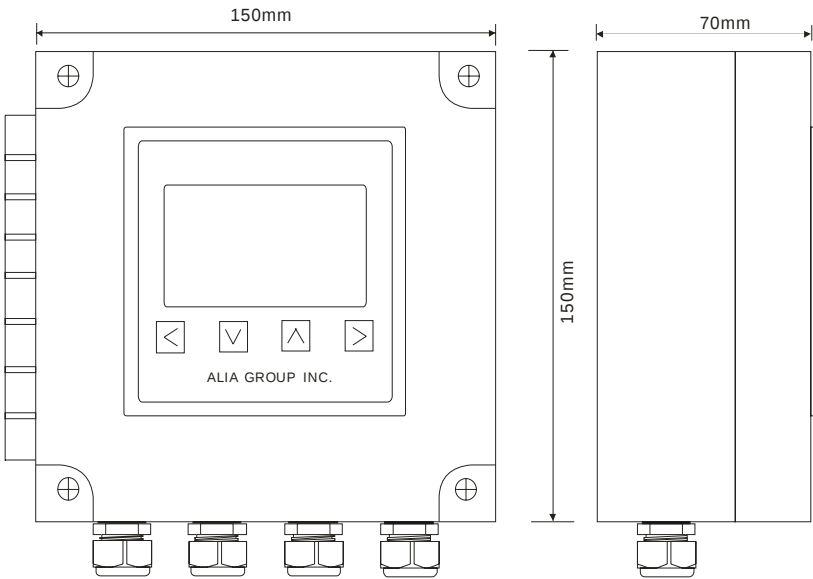
- ❑ Four line LCD display Flow Rate / Energy / Totalizer
- ❑ Accuracy of +/-0.4% of reading
- ❑ Bi-directional flow measurement, current and pulse output
- ❑ Large digital display, with temperature / energy function
- ❑ 99 times records for power on / off
- ❑ MODBUS/HART communication



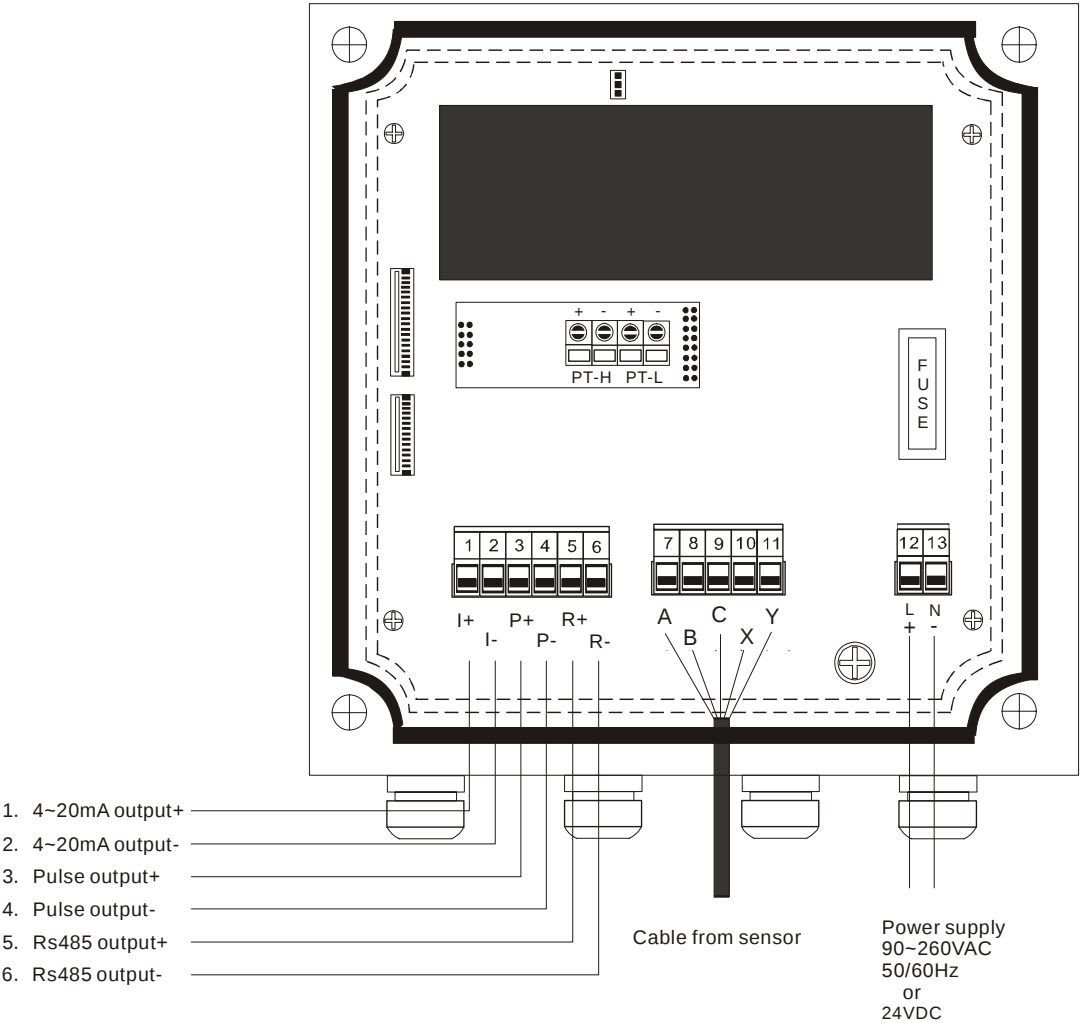
STANDARD SPECIFICATION

- | | | | |
|-------------------|--|------------------------|--|
| ● Excitation | : DC pulsed | ● Keyboard | : 4 external keys for programming and display control |
| ● Display | : 4 lines LCD with back light | ● Low Flow Cutoff | : 0 to 9.9 % |
| Line 1 | : Date and Time | ● Data Logger Function | : 99times flowrate records for power on/off |
| Line 2 | : 6 digit flowrate
7 digit energy value
Fault code
Supply temperature | ● Record Data | : Date/Time when power on/off
: 99 years flow rate / energy / temperature / total flow / total energy
One record data per Hour |
| Line 3 | : 9 digit totalizer for forward / reverse flow
9 digit totalizer for heat / cold energy
Fault code content
Return temperature | ● Damping | : 0.1 to 99.9 seconds |
| Line 4 | : Differential temperature | ● Self Diagnosis | : The following error message are displayed if failure occurs |
| Unit | : L/S, L/M, L/H, M3/S, M3/m, M3/H, ML/H, ML/m
ML/S, KW, MW, KJ/H, MJ/H, GJ/H, Mcal/H
Kcal/H, Cal/H | - Coil failure | |
| ● Measuring Range | : Min. 0 to 0.15 m/s
: Max. 0 to 15 m/s | - Power failure | |
| ● Accuracy | : +/-0.4% of reading (Velocity ≥ 0.5 m/s)
: +/-0.002 m/s (Velocity < 0.5 m/s) | - Overranged Output | |
| ● Repeatability | : +/-0.1% of reading | - Internal error | |
| ● Current Output | : 4-20 mA (Isolated) | - Overflow | |
| Load | : Max. 600 Ω | - Empty pipe | |
| ● Pulse Output | : Open collector | ● Cable Entry | : Standard :PG11 Option:1/2"NPTF |
| Rating | : 3 to 30 VDC, 20 mA Max. | ● Protection Class | : IP 65 |
| ● Pulse Rate | : 1)Scale pulse (Pulse/M3, Pulse/L, Other)
: 2)Frequency: 0-5000 Hz | ● Ambient Temperature | : -25 to +65 °C |
| ● Communication | : RS 485 (MODBUS Protocol)
: HART signal (Compatible) | ● Material | : Aluminum Alloy |
| ● Data Storage | : Operation parameters and totalizer figures are stored by EEPROM for more than 10 years | ● Temperature Input | : PT1000Ω, 2 wire |
| | | ● Power Supply | : 90-260 VAC, 50/60 Hz
: 24 VDC +/- 10% (Option) |
| | | ● Power Consumption | : 3-17 W (Dependent on sensor size) |
| | | ● Weight | : 1.4 Kg |
| | | ● Mounting | : Wall mounting
: Bracket on 2" pipe |

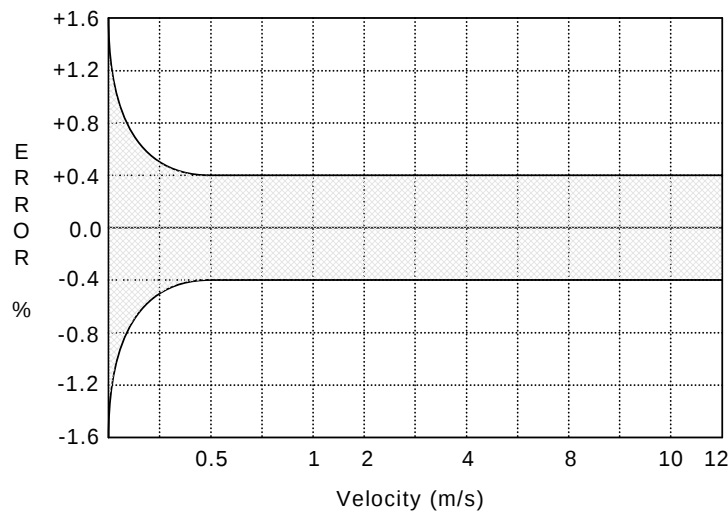
DIMENSIONS



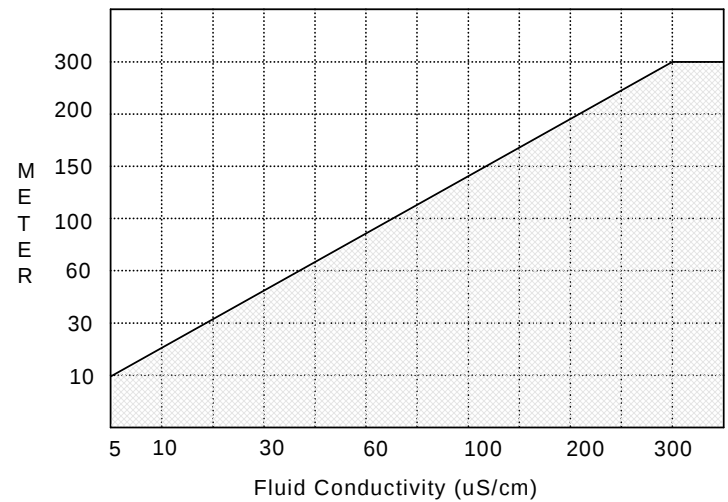
WIRING DIAGRAM



➤ ACCURACY



➤ CABLE LENGTH BETWEEN SENSOR & CONVERTER



➤ MODEL SELECTION GUIDE

AMC2100E Series						
Example:AMC2100E-AC-CP-HT-NN						
AMC2100E-		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
Communication			NN	RS 485 (MODBUS Protocol)		
			HT	HART Signal (Compatible)		
Option				NN	None	
				PT	Cable Entry 1/2" NPTF	

BUILD OPTIONS-(COMPACT OR REMOTE)

