



# ALIAMAG

## Electromagnetic Flow Converter with Thermal Energy

### Model AMC2100E Series

## GENERAL

ALIAMAG AMC2100E series Converter With temperature/energy function can be used with AMF series flowmeter in both compact or separate versions.

## FEATURES

- Four line LCD display Flowrate/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 : Square wave
- Display : 4 lines LCD with back light
  - Line 1 : Date and Time
  - Line 2 : 6 digit flowrate  
7 digit energy value  
Fault code  
Supply temperature
  - Line 3 : 9 digit totalizer for forward / reverse flow  
9 digit totalizer for heat / cold energy  
Fault code content  
Return temperature
  - Line 4 : Differential temperature  
Unit : L/S , L/M , L/H , M3/S , M3/L , M3/H  
KW , MW , KJ/H , MJ/H , GJ/H
- Measuring Range : Min. 0 to 0.15 m/s  
: Max. 0 to 15 m/s
- Accuracy : +/-0.4% of reading (Velocity >= 0.5 m/s)  
: +/-0.002 m/s (Velocity < 0.5 m/s)
- Repeatability : +/-0.1% of reading
- Current Output : 4-20 mA (Isolated)  
Load : Max. 600  $\Omega$
- Pulse output : Open collector  
Rating : 3 to 30 VDC, 20 mA Max.
- Pulse Rate : 1) Scale pulse, (Pulse/M3, Pulse/L, Other)  
: 2) Frequency, 0-5000 Hz
- Communication : RS 485 (MODBUS Protocol)  
: HART signal
- Data Storage : Operation parameters and totalization  
figures are stored by EEPROM for more than 10 years
- Keyboard : 4 keys from external for programming and display control.
- Low Flow Cutoff : 0 to 9.9 %
- Datalogger Function : 99 times records for power on/off
- Record Data : Date/Time when Power on/off  
: 99 years flow rate / energy /  
Temperature / Total flow / Total energy  
One Record Data per Hour
- Damping : 0.1 to 99.9 Second
- Self Diagnosis : The following error message is indicated during application
  - Coil fail
  - Power fail
  - Output overanged
  - Internal error
  - Overflow
  - Empty pipe
- Cable Entry : M16 \* 1.5
- Protection Class : IP 65
- Ambient Temperature : -25 to +65 °C
- Material : Aluminum Alloy
- Temperature Input : PT1000 $\Omega$ , 2 wire
- Power Supply : 90-260 VAC, 50/60 Hz  
: 24 VDC +/- 10% (Option)
- Power Consumption : 3-17 W (depending on the sensor size)
- Weight : 1.4 Kg
- Mounting : Wall mounting  
: Bracket on 2" pipe



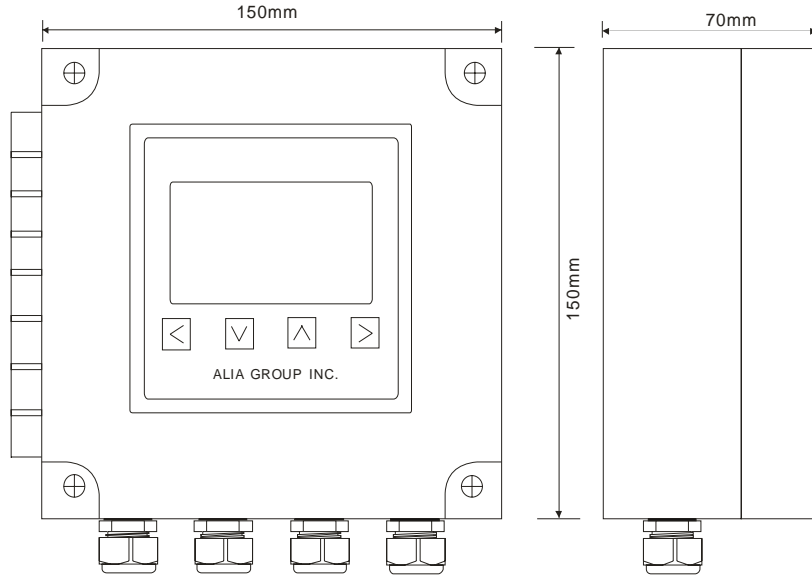
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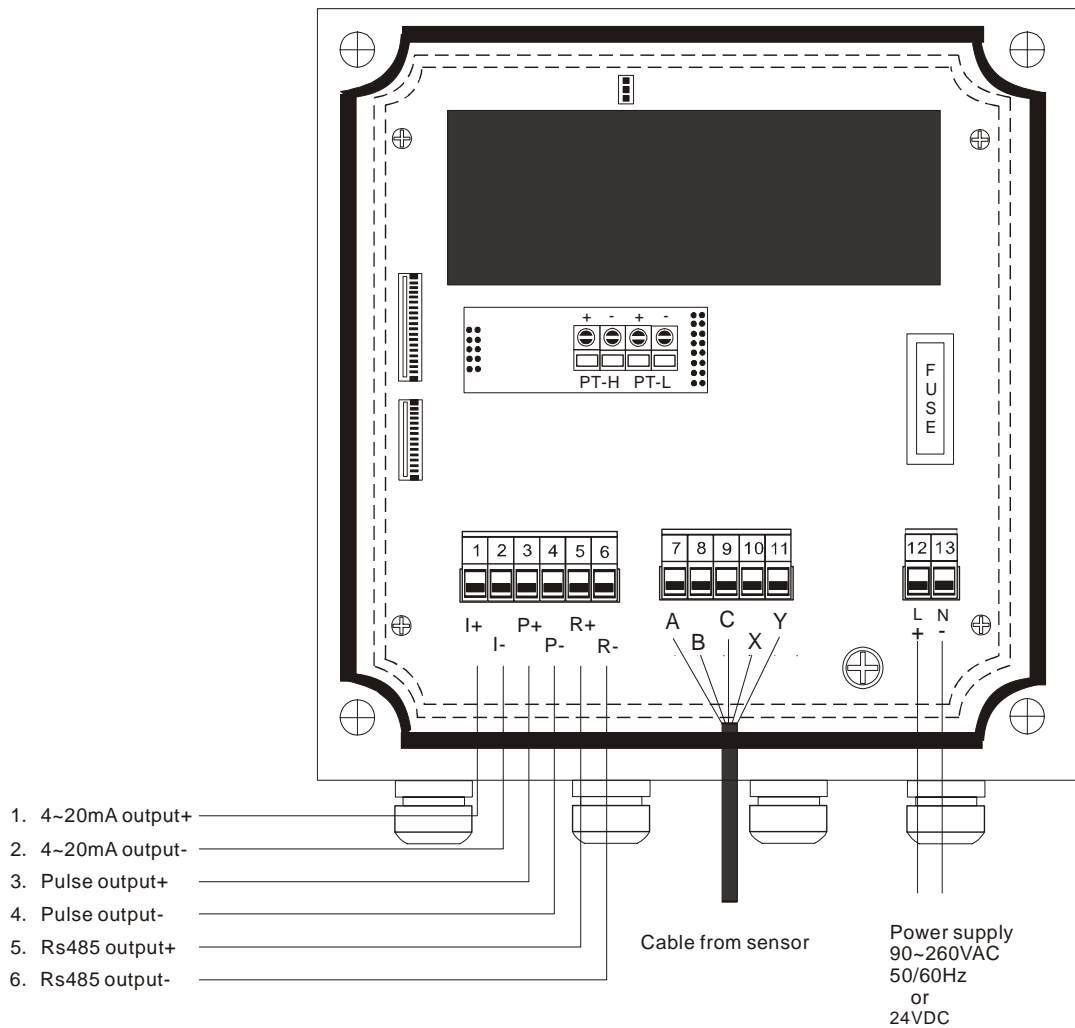
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AMC2100EV1.1.5en



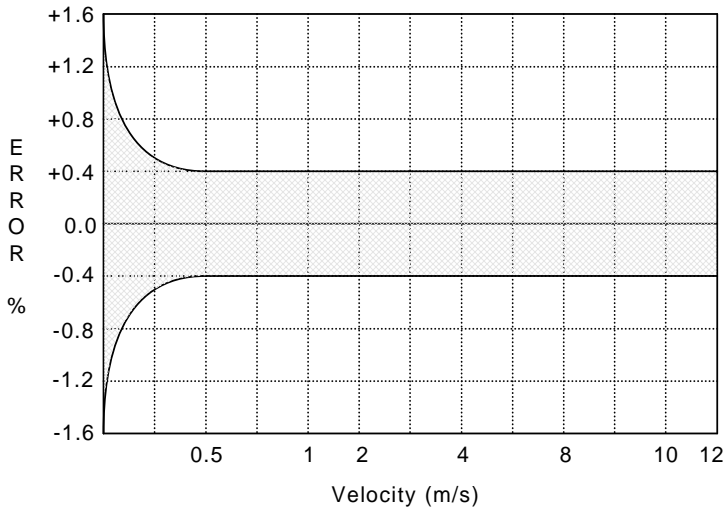
**➤ DIMENSION**



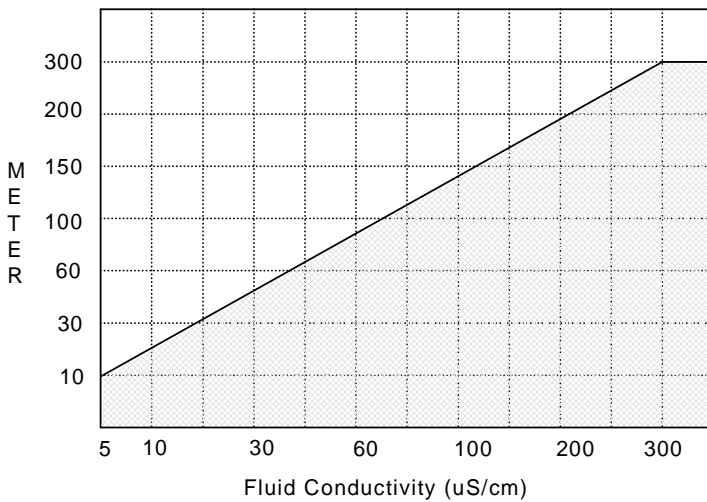
**➤ ELECTRICAL CONNECTION**



**➤ ACCURACY**



**➤ CABLE LENGTH BETWEEN SENSOR TO CONVERTER**



**➤ MODEL SELECTION GUIDE**

AMC2100E Series				
Example: AMC2100E-AC-CP-HT				
AMC2100E-	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