

GENERAL

ALIAMAG AMC2100E series converter with temperature/energy function can be used with AMF series sensor in either compact or separate versions.

FEATURES

- ❑ Four line LCD display Flowrate / Energy / Totalizer
- ❑ Accuracy of +/-0.4% value 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

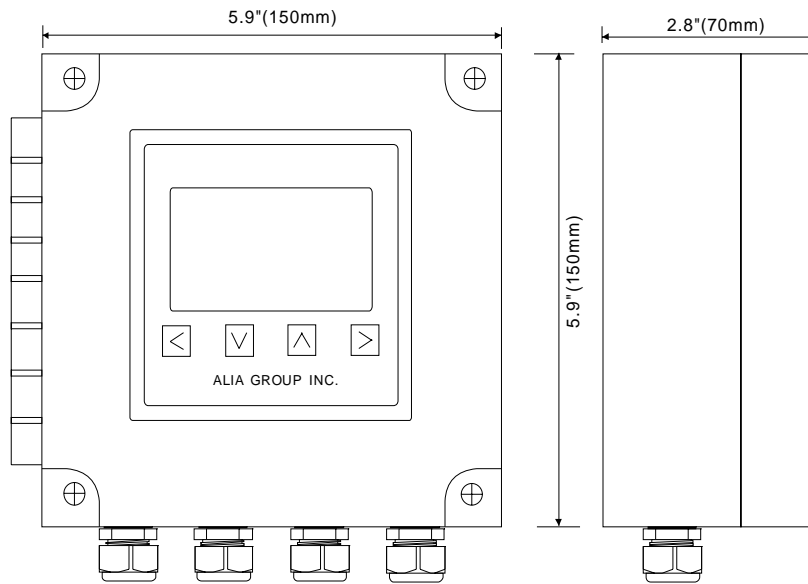
STANDARD SPECIFICATION

- Excitation : DC pulsed
- 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 0.5 ft/s(0 to 0.15 m/s)
: Max. 0 to 49 ft/s(0 to 15 m/s)
- Accuracy : +/-0.4% of reading (Velocity ≥ 1.6 ft/s)
: +/-0.007 ft/s (Velocity < 1.6 ft/s)
- Repeatability : +/-0.1% of reading
- Current Output : 4-20 mA (Isolated)
 - Load : Max. 600 Ω
- 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 totalizer figures are stored by EEPROM for more than 10 years

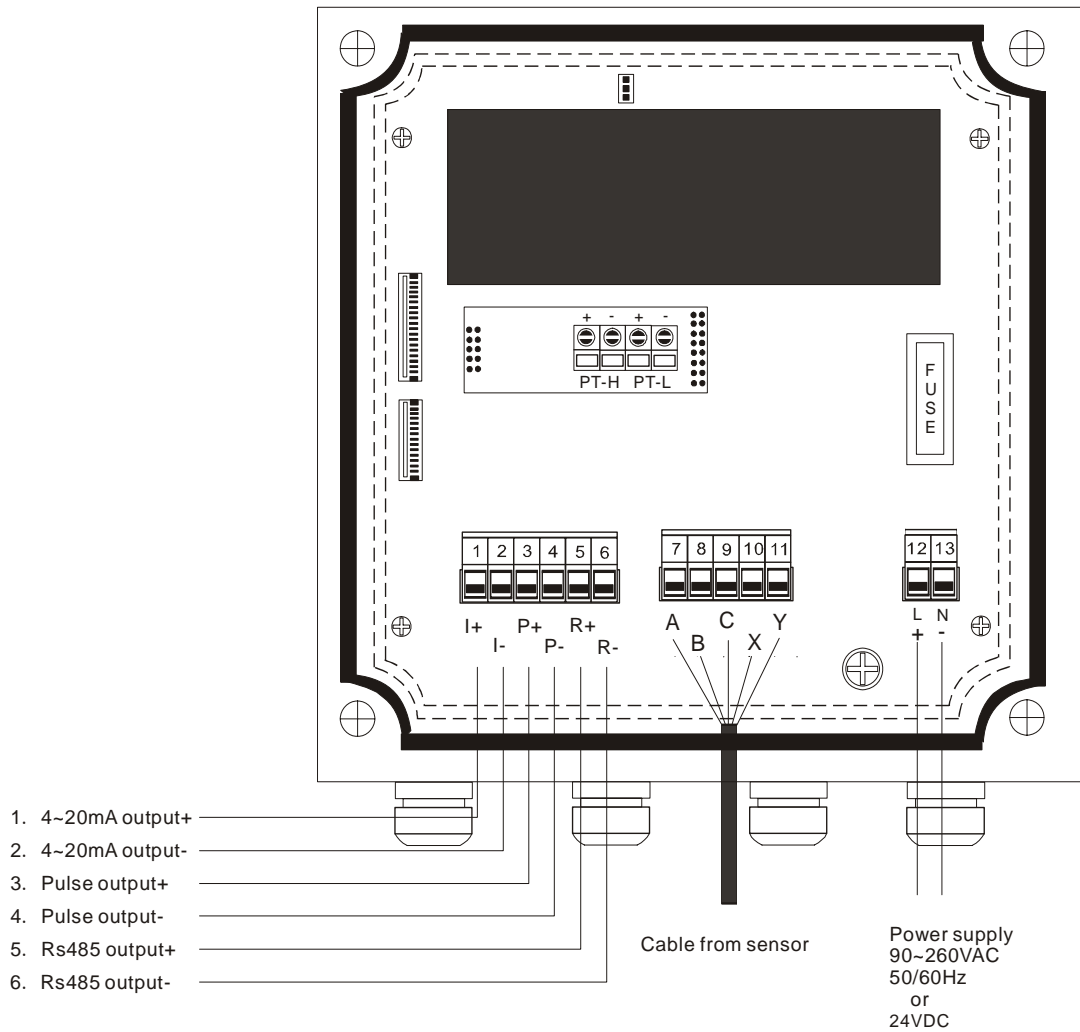


- Keyboard : 4 external keys for programming and display control
- Low Flow Cutoff : 0 to 9.9 %
- Data logger Function : 99 times flowrate records for power on/off
- Record Data : Date / Time when Power on / off
: 99 years flow rate / energy / Temperature / Total flow / Total energy
One record data per hour
- Damping : 0.1 to 99.9 Seconds
- Self Diagnosis : The following error message are displayed if failure occurs
 - Coil failure
 - Power failure
 - Overranged output over M22
 - Internal error
 - Overflow
 - Empty pipe
- Cable Entry : Standard :PG11 Option :1/2" NPTF
- Protection Class : IP 65
- Ambient Temperature : -13 ~ +149 °F (-25 ~ +65 °C)
- Material : Aluminum Alloy
- 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 : 3.0 lbs
- Mounting : Wall mounting
: Bracket on 2" pipe

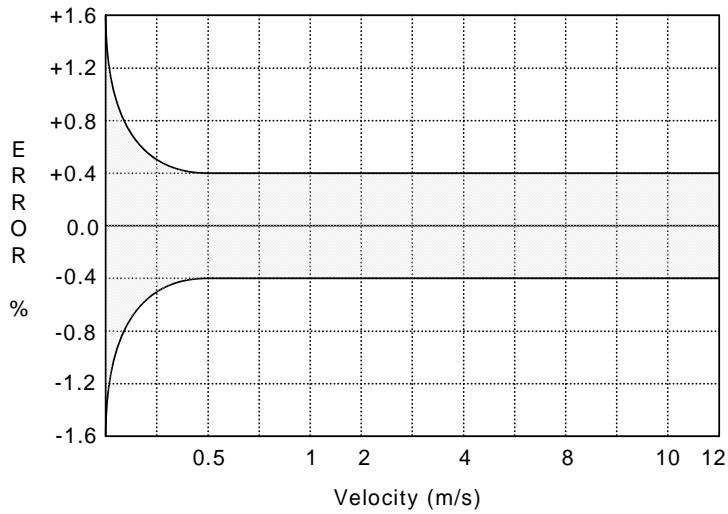
➤ DIMENSIONS



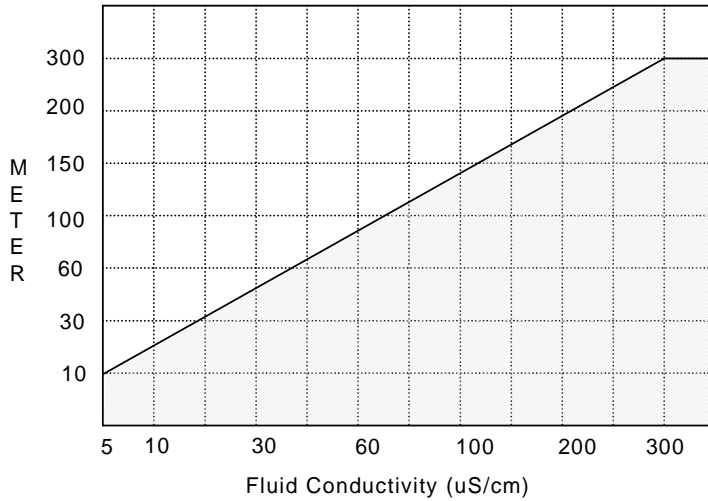
➤ WIRING DIAGRAM



➤ 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
Option	NN				None
	PT				Cable Entry 1/2" NPTF

➤ BUILD OPTIONS-(COMPACT OR REMOTE)

