



ALIAMAG

Converter For Electromagnetic Flowmeter

Model AMC2100HM Series

GENERAL

ALIAMAG The ALIAMAG AMC2100HM 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 +/-0.4% value of reading
- ❑ Bi-directional flow measurement, current and pulse output
- ❑ Large digital display
- ❑ MODBUS / HART communication



STANDARD SPECIFICATION

- | | | | |
|-------------------|--|-----------------------|--|
| ● Excitation | : DC pulsed | ● Keypad | : 3 External keys for programming and display control |
| ● Display | : 3 Lines LCD with illumination | ● Data Storage | : Operation parameters and totalizer figures are stored by EEPROM for more than 10 years |
| Line 1 | : 11 Digit totalizer for forward flow | ● Low Flow Cutoff | : 0-9.9% |
| | : 11 Digit totalizer for reverse flow | ● Damping | : 0-99 Seconds |
| | : 11 Digit totalizer for difference | ● Density Setting | : 0.1-9.99 g/cm ³ |
| Line 2 | : 5 Digit flowrate / velocity / % / mA / Hz | ● Self Diagnosis | : The following error messages are displayed if failure occurs |
| Line 3 | : Parameter / Query / Clr tot / Query LOG | | - Coil failure |
| | Alarm, Guidance | | - Power failure |
| Totalizer Unit | : t, kg, g, lb, Ston, Lton, m ³ , L, mL, lgal, gal, mgal, bbl, fr ³ , a-ft | | - Overranged output |
| Time Unit | : sec, min, hour, day | | - Internal error |
| ● Measuring Range | : Min. 0-0.15 m/s | | - Overflow |
| | : Max. 0-15 m/s | | - Empty pipe |
| ● Accuracy | : +/-0.4% of reading (Velocity ≥ 0.5 m/s) | ● Cable Entry | : Standard: PG11 Option: 1/2" NPTF |
| | : +/-0.002 m/s (Velocity < 0.5 m/s) | ● Protection Class | : IP65 |
| ● Repeatability | : +/-0.1% of reading | ● Ambient Temperature | : -25~65 °C |
| ● Current Output | : 4-20 mA (Isolated) | ● Material | : Aluminum Alloy |
| | Load : Max. 600 Ω | ● Power Supply | : 90-260 VAC, 50/60 Hz |
| ● Pulse Output | : Open collector | | : 24 VDC +/-10% (Option) |
| | Rating : 3-30 VDC, 20 mA Max. | ● Power Consumption | : 3-17 W (Dependent on sensor size) |
| ● Pulse Rate | : 1) Scaled pulse (mL/Pulse, L/Pulse, Other) | ● Weight | : 1.4 kg |
| | : 2) Frequency: 0-5000 Hz | ● Mounting | : Wall mounting |
| ● Pulse Width | : 50% of band width | | : Bracket on 2" pipe |
| ● Alarm | : High / Low with open collector output | | |
| | Rating : 3-30 VDC, 20 mA Max. | | |
| ● Communication | : RS485 (MODBUS Protocol) | | |
| | : HART signal (Compatible) | | |



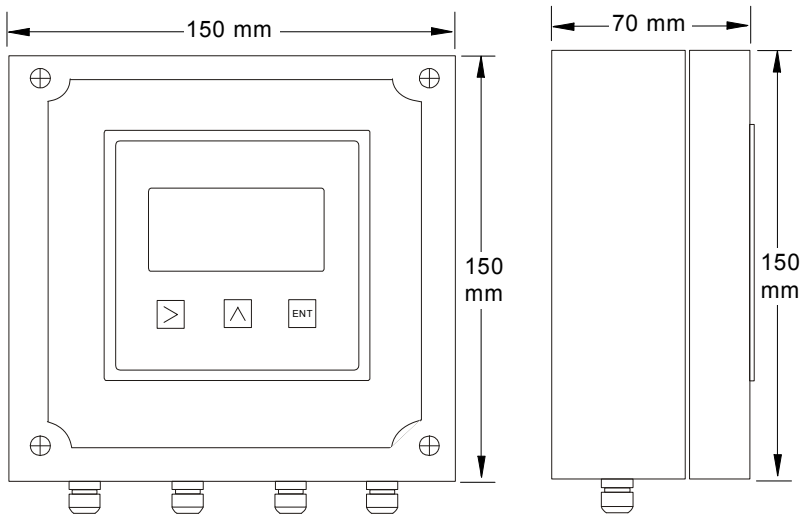
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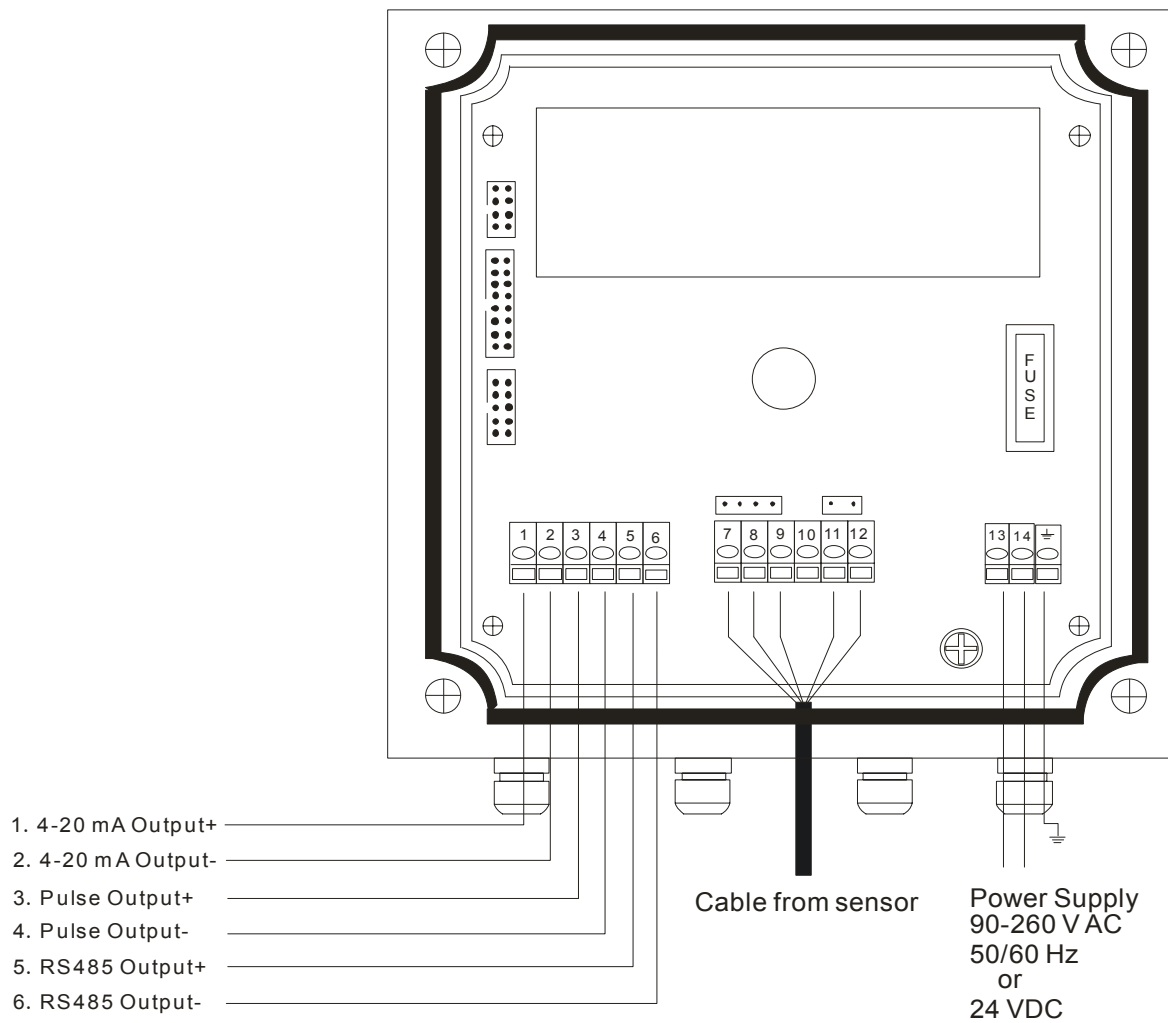


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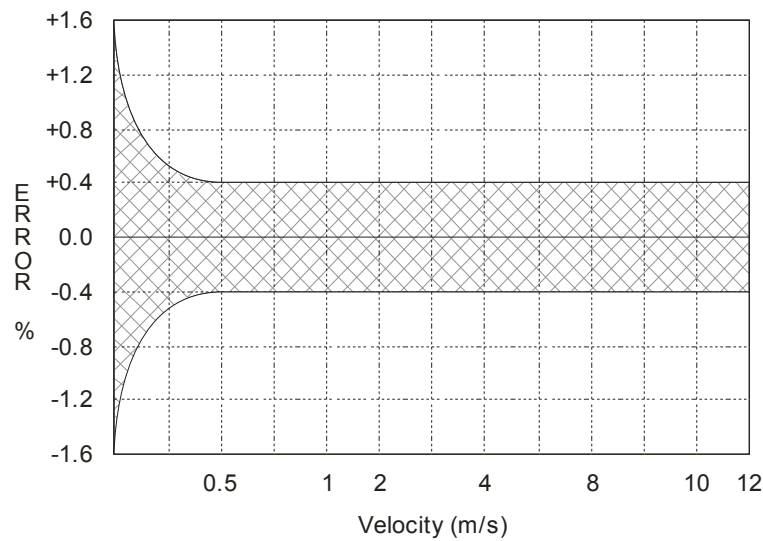
DIMENSIONS



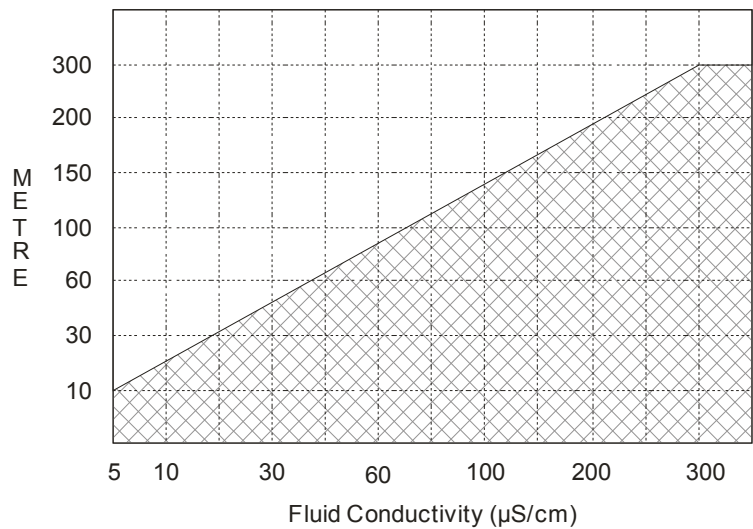
WIRING DIAGRAM



➤ACCURACY



➤CABLE LENGTH BETWEEN SENSOR & CONVERTER



➤MODEL SELECTION GUIDE

AMC2100HM Series						
Example: AMC2100HM-AC-CP-HT-NN						
AMC2100HM-	XX-	XX-	XX-	XX	Description	
Power Supply	AC-				90-260 VAC, 50/60 Hz	
	DC-				24 VDC, +/-10%	
Mounting		CP-			Compact with Sensor	
		SW-			Remote, Wall Mounting	
		S2-			Remote, 2" Mounting Bracket	
Communication		NN-			RS485 (MODBUS Protocol)	
		HT-			HART Signal (Compatible)	
Option			NN	None		
			PT	Cable Entry 1/2" NPTF		

BUILD OPTIONS-(COMPACT OR REMOTE)

