

GENERAL

ALIAMAG The ALIAMAG AMC2100 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

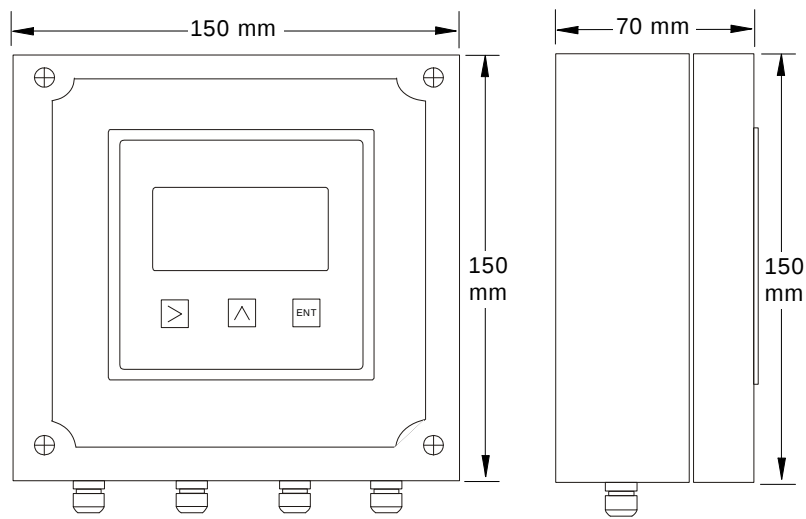


STANDARD SPECIFICATION

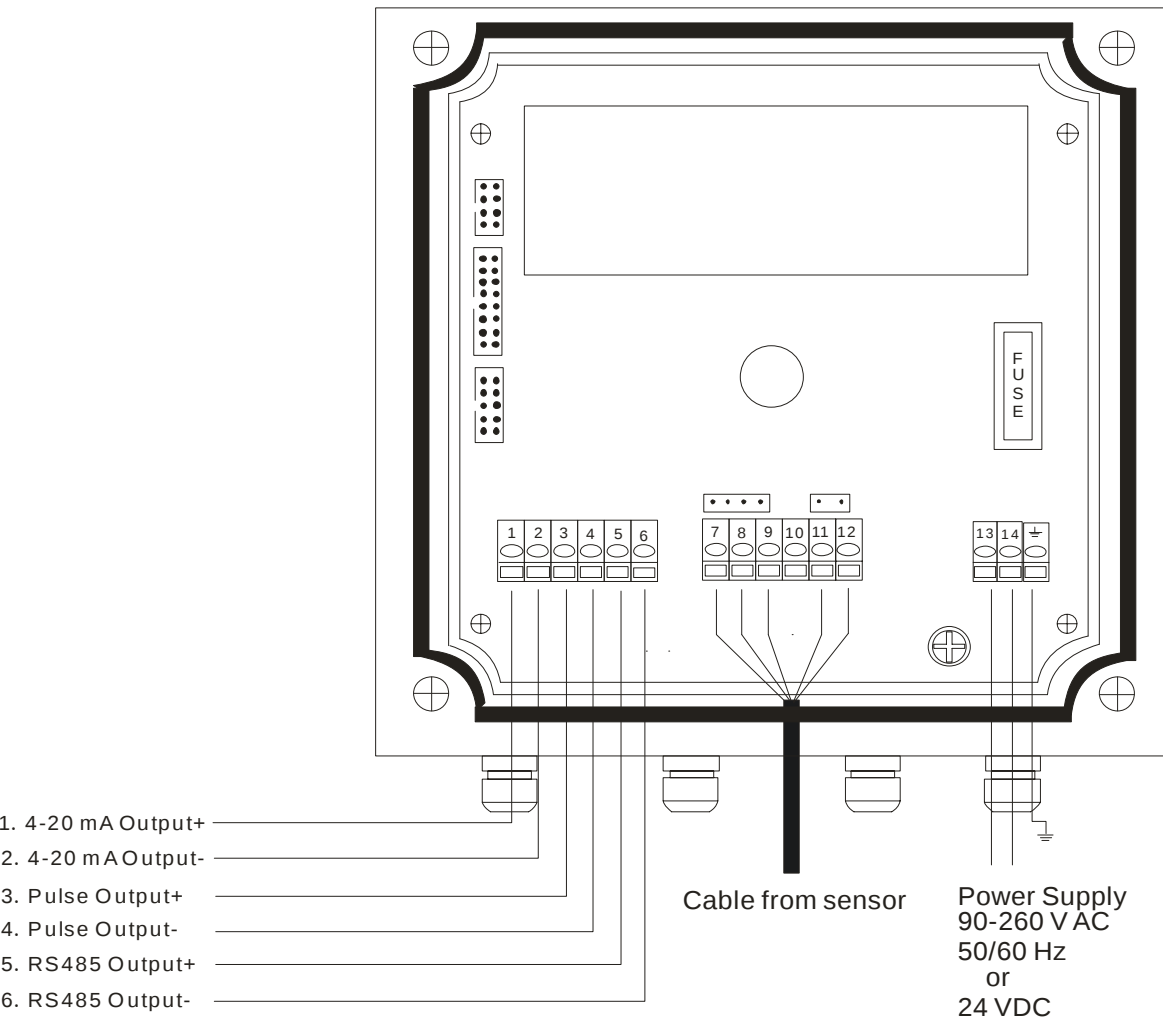
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|-------------------|---|-----------------------|--|
| ● Excitation | : DC pulsed | ● Keypad | : 3 External keys for programming and display control |
| ● Display | : 3 Lines LCD with illumination | ● Data Storage | : Operation parameters and totalizer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



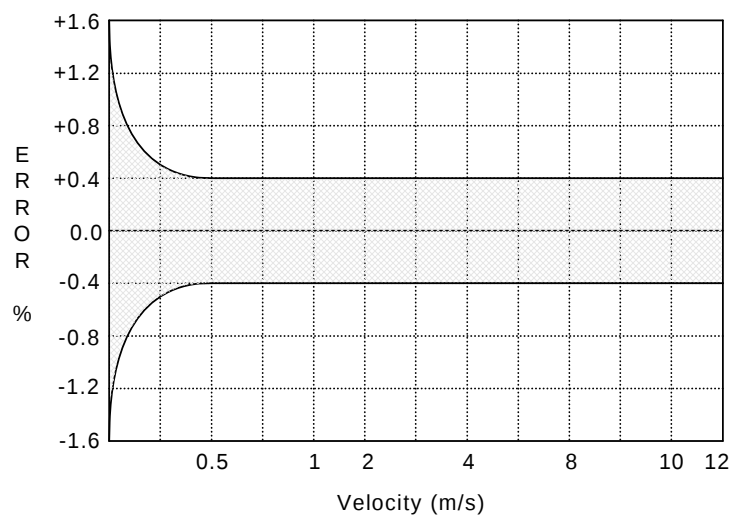
DIMENSIONS



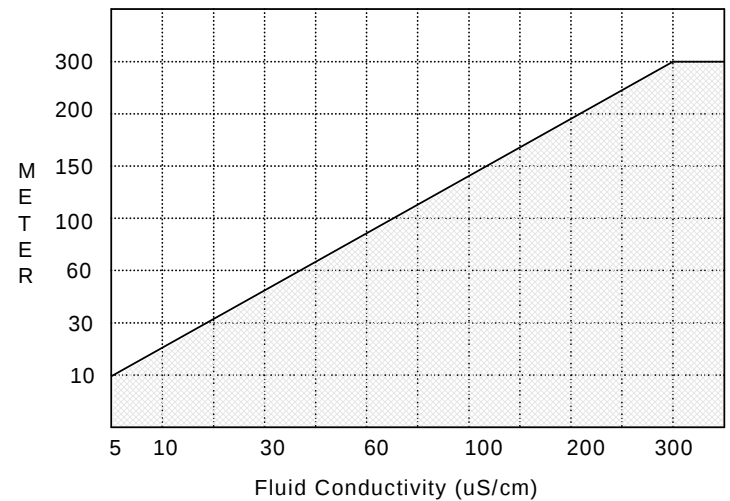
WIRING DIAGRAM



➤ACCURACY



➤CABLE LENGTH BETWEEN SENSOR & CONVERTER



➤MODEL SELECTION GUIDE

AMC2100 Series					
Example: AMC2100-AC-CP-HT-NN					
AMC2100-	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)

