



ALIAMAG

Electromagnetic Flow Converter with Thermal Energy

Model AMC3200E Series

GENERAL

ALIAMAG The ALIAMAG AMC3200E Series is a heat meter converter of electromagnetic flowmeter that can be paired with any of ALIA AMF series sensors. The unit features multiple display parameters including flow rate, energy, flow total, energy total, supply temperature, return temperature, diagnostic, programming and troubleshooting. It's equipped with MODBUS, Bluetooth and BACnet protocol.

FEATURES

- ❑ Four line LCD display Flow Rate / Energy / Totalizer / Temperature
- ❑ $\pm 0.2\%$ value of reading
- ❑ Bi-direction flow measurement, and the display can rotate
- ❑ With hourly report, daily report, monthly report and yearly report query function
- ❑ 99 times/dates records for alarm
- ❑ 99 (total) times records for power on / off
- ❑ MODBUS, Bluetooth, BACnet protocol

STANDARD SPECIFICATION

- | | | | |
|-------------------|--|------------------------|---|
| ● Excitation | : DC Plused | ● Keypad | : 3 External keys for programming and display control |
| ● Display | : 4 Lines LCD with backlight | ● Low Flow Cutoff | : 0-9.9% |
| Line 1 | : Date and Time | ● Data Logger Function | : 99 Date / time records for alarm |
| Line 2 | : 6 Digit flowrate | ● Record Data | : Date / time of power on/ off |
| | : 6 Digit energy value | | : 99 Years flow rate / energy / temperature / total flow / total energy |
| | : Error code | | : Record data every one hour |
| | : Supply temperature | ● Damping | : 0.1-99.9 s |
| Line 3 | : 9 Digit totalizer for forward flow / reverse flow | ● Self Diagnosis | : The following error message are displayed if failure occurs |
| | : 9 Digit totalizer for heat / cold energy | | - Coil failure |
| | : Error code content | | - Temperature failure |
| | : Return temperature | | - Temperature anomaly |
| Line 4 | : Differential temperature | | - Zero point anomaly |
| Unit | : L/s, L/min, L/hr, m ³ /s, m ³ /min, m ³ /hr, mL/hr, mL/min, mL/s, kW, MW, KJ/hr, MJ/hr, GJ/hr, Mcal/hr, Kcal/hr, Cal/hr | | - EEPROM anomaly |
| ● Measuring Range | : Min. 0-0.15 m/s | ● Cable Entry | : Standard: M20 Option: 1/2"NPTF |
| | : Max. 0-15 m/s | ● Protection Class | : IP67 |
| ● Accuracy | : $\pm 0.2\%$ of reading (Velocity ≥ 0.5 m/s) | ● Ambient Temperature | : -25-65 °C |
| | : ± 0.001 m/s (Velocity < 0.5 m/s) | ● Material | : Aluminum Alloy |
| ● Repeatability | : $\pm 0.05\%$ of reading | ● Temperature Input | : PT1000, 2 wire |
| ● Current Output | : 4-20 mA (isolated) | ● Power Supply | : 90-260 VAC, 50/60 Hz |
| | Load : Max. 600 Ω | | : 24 VDC $\pm 10\%$ (Option) |
| ● Pulse Output | : Open collector | ● Power Consumption | : 10-20 W (Dependent on sensor size) |
| | Rating : 3-30 VDC, 50 mA Max. | ● Weight | : 4.5 kg |
| ● Pulse Rate | : 1) Scale pulse, (L/Pulse, Other) | ● Mounting | : Bracket on 2" pipe |
| | : 2) Frequency: 0-5000 Hz | | |
| ● Communication | : Bluetooth (Apply to Android System) | | |
| | : RS485 (MODBUS Protocol) / BACnet | | |
| ● Data Storage | : Operation parameters and totalizer figures are stored by EEPROM for more than 10 years | | |



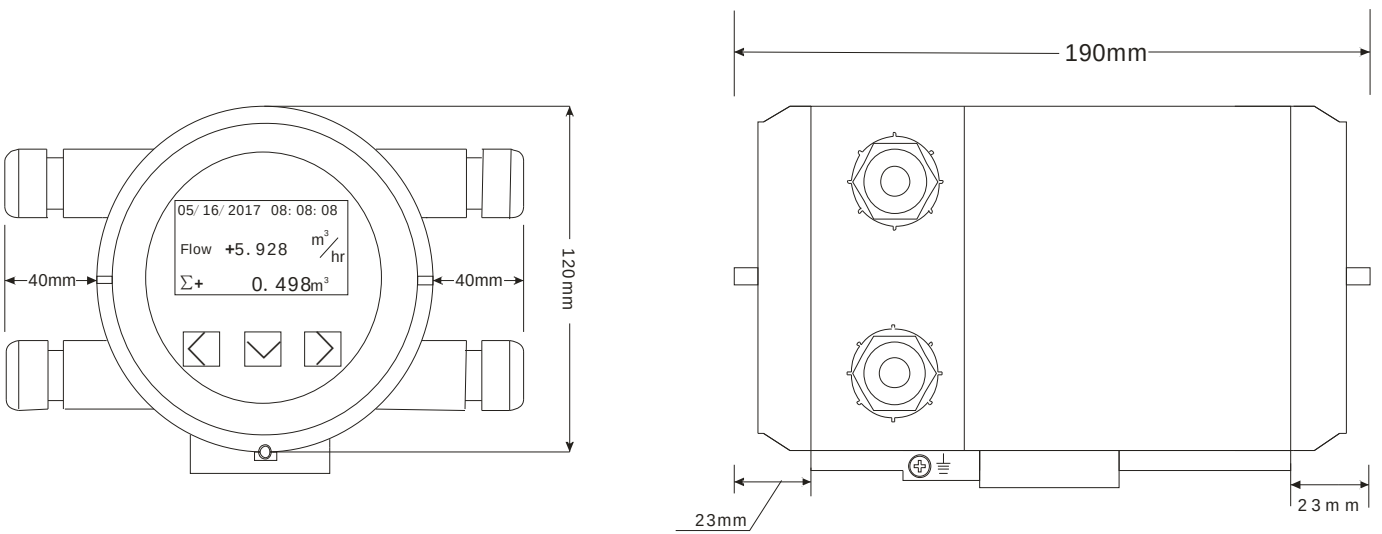
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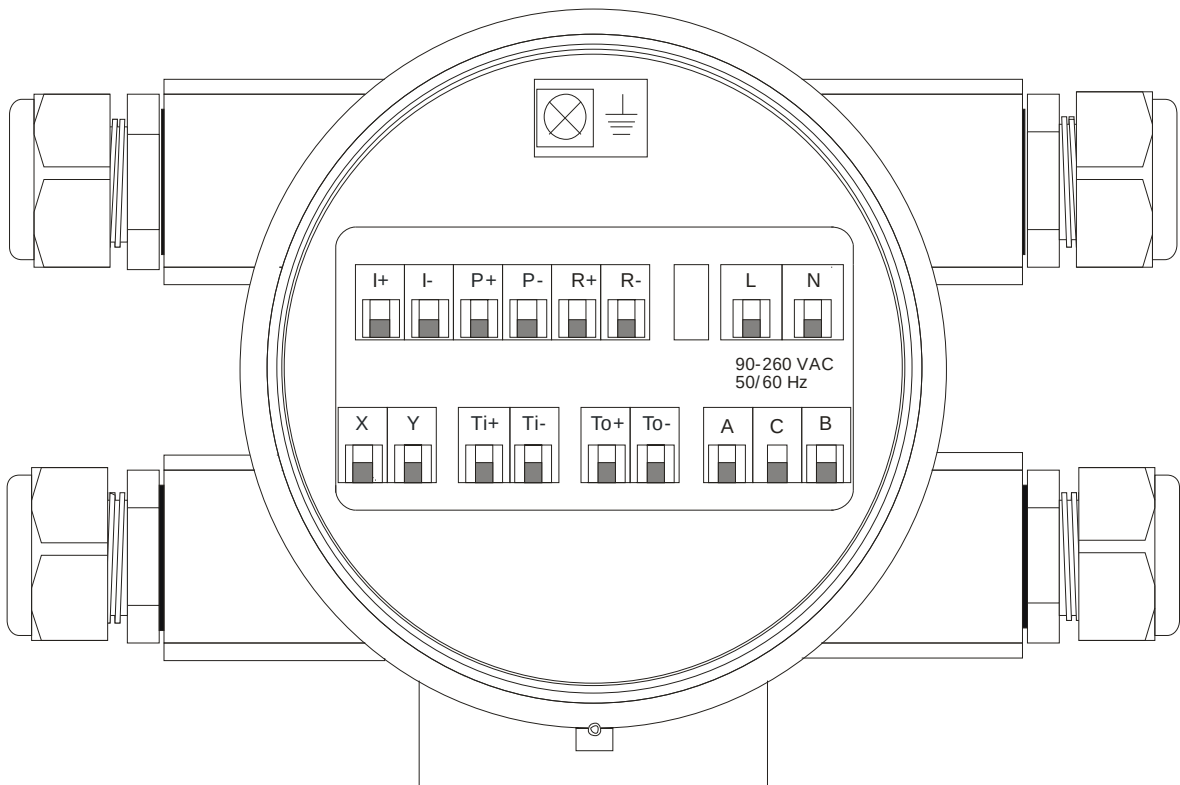


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AMC3200EV1.2.2.r2.A4.en

DIMENSIONS



WIRING DIAGRAM



I+: 4-20 mA Output +

I-: 4-20 mA Output -

Ti+: Supply temperature

Ti-: Supply temperature

To+: Return temperature

To-: Return temperature

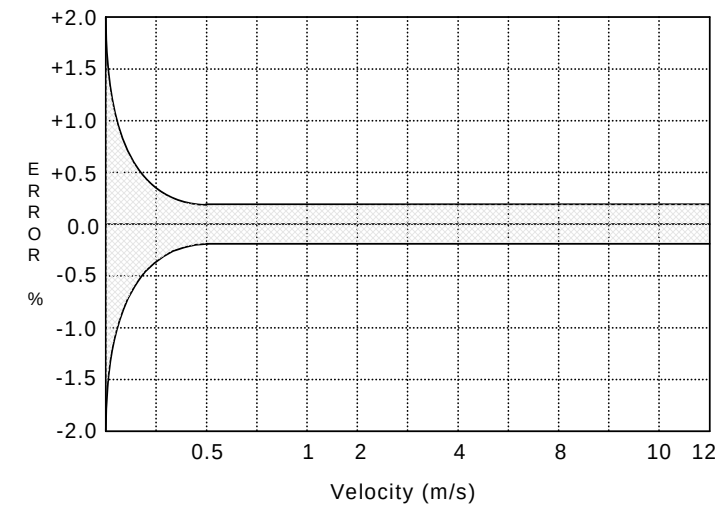
P+: Pulse Output +

P-: Pulse Output -

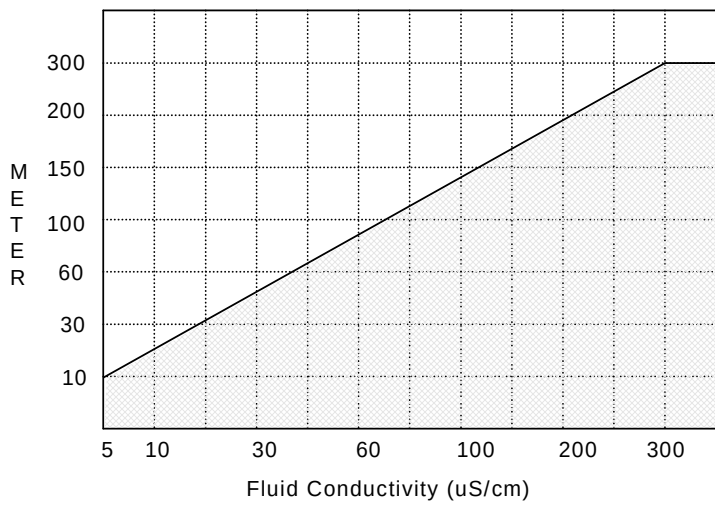
R+: RS485 Output +

R-: RS485 Output -

➤ACCURACY



➤CABLE LENGTH BETWEEN SENSOR & CONVERTER



➤MODEL SELECTION GUIDE

AMC3200E Series						
Example: AMC3200E-AC-CP-NN-NN						
AMC3200E-	XX-	XX-	XX-	XX	Description	
Power Supply	AC-				90-260 VAC, 50/60 Hz	
	DC-				24 VDC, +/-10%	
Mounting		CP-			Compact with sensor	
		S2-			Remote, 2" Mounting Bracket or Wall Mounting	
Communication			NN-		RS485 (MODBUS Protocol), Bluetooth, BACnet	
Option				NN	None	
				PT	Cable Entry 1/2"NPTF	

BUILD OPTIONS- (COMPACT OR REMOTE)

