**GENERAL**

The Aliamag AMC3200PE 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. It’s equipped with bluetooth, HART and Modbus communication functions.

**FEATURES**

- Three line LCD display Flow Rate / Totalizer
- Accuracy of +/-0.2% value of reading
- Bi-directional flow measurement, current and pulse output
- Explosion Proof, Exd (ib)ibqllBT5
- Bluetooth/MODBUS/HART communication
- Converter can be rotated at Four directions for easy installation

**STANDARD SPECIFICATION**

- **Excitation**: DC pulsed
- **Display**: 3 lines LCD with illumination
  - Line 1: 11 digit totalizer for forward flow
  - Line 2: 5 digit flowrate / velocity / % / mA / HZ
  - Line 3: Parameter / Query / Clr tot / Query LOG
- **Alarm, Guidance**: Totalizer Unit: T, Kg, g, lb, Ston, m3,L,mL,gal, Mgal, bbl, ft3, a-ft
- **Time Unit**: sec, min, hour, day
- **Measuring Range**: Min. 0 to 0.15 m/s
- **Accuracy**: +/-0.2% of reading (Velocity ≥ 0.5 m/s)
  - +/-0.001 m/s (Velocity < 0.5 m/s)
- **Repeatability**: +/-0.05% of reading
- **Current Output**: 4-20 mA (Isolated)
  - Load: Max. 600 Ω
- **Pulse Output**: Open collector
  - Rating: 3 to 30 Vdc, 50 mA Max.
- **Pulse Rate**: 1)Scale pulse (mL/Pulse, L/Pulse, Other) 2)Frequency: 0-5000 Hz
- **Pulse Width**: 50% of band width
- **Alarm**: High/Low with open collector output
  - Rating: 3 to 30 Vdc, 50 mA Max.
- **Communication**: Bluetooth (Android)Standard
  - RS485 (MODBUS Protocol)Standard
  - HART signal (Compatible)Optional
- **Keypad**: 3 internal keys for programming and display control
- **Data Storage**: Operation parameters and totalizer figures are stored by EEPROM for more than 10 years
- **Low Flow Cutoff**: 0 to 9.9 %
- **Damping**: 0 to 99 Seconds
- **Density Setting**: 0.1 to 9.99 g/cm3
- **Self Diagnosis**: The following error message are displayed if failure occurs
  - Coil failure
  - Power failure
  - Overanged Output
  - Internal error
  - Overflow
  - Empty pipe
- **Cable Entry**: Standard:M20 Option:1/2"NPTF
- **Protection Class**: IP 67, Explosion proof, Exd (ib)ibqllBT5
- **Ambient Temperature**: -25 to +65 °C
- **Material**: Aluminum Alloy
- **Power Supply**: 90-260 Vac, 50/60 Hz
  - 24Vdc +/-10% (Option)
- **Power Consumption**: 3-17 W (Dependent on sensor size)
- **Weight**: 4.5 Kg
- **Mounting**: Bracket on 2" pipe
- **Option**: AM (Ambient Temperature Inspection)
**DIMENSIONS**

- 120mm (height)
- 40mm (width)
- 23mm (depth)
- 190mm (length)

**WIRING DIAGRAM**

- I+: 4-20mA Output +
- I-: 4-20mA Output -
- P+: Pulse Output +
- P-: Pulse Output -
- R+: RS485 Output +
- R-: RS485 Output -
**ACCURACY**

![Graph showing accuracy error vs. velocity (m/s)]

**CABLE LENGTH BETWEEN SENSOR & CONVERTER**

![Graph showing cable length vs. fluid conductivity (μS/cm)]

**MODEL SELECTION GUIDE**

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Example: AMC3200PE-AC-CP-EX-HT/PT
BUILD OPTIONS-(COMPACT OR REMOTE)