**SINGLE CHANNEL SYSTEM**

- **BATTERY BACK-UP**
  - 2COND, 20 AWG, 100' MAX.
  - (00-0057) (OPTIONAL)

- **4-20 mA OUTPUT**

- **(3) SPDT, 10A ALARM RELAYS**

- **(1) SPDT, 10A TROUBLE RELAY**

- **POWER**
  - 85 - 255 VAC or VDC

- **SENSOR/TRANSMITTER**
  - GAS SPECIFIC

**TWO CHANNEL SYSTEM**

- **BATTERY BACK-UP**
  - 2COND, 20 AWG, 100' MAX.
  - (00-0057) (OPTIONAL)

- **4-20 mA OUTPUT (TYPICAL EACH CHANNEL)**

- **(3) SPDT, 10A ALARM RELAYS**
  - (TYPICAL EACH CHANNEL)

- **(1) SPDT, 10A TROUBLE RELAY**
  - (TYPICAL EACH CHANNEL)

- **POWER**
  - 85 - 255 VAC or VDC

- **SENSOR/TRANSMITTER**
  - GAS SPECIFIC

- **2COND, 20 AWG, 1000' MAX.**
- **2COND, 16 AWG, 500' MAX.** (COMBUSTIBLE GAS ONLY)

- **2COND, 20 AWG, 1000' MAX.** (COMBUSTIBLE GAS ONLY)
- **2COND, 20 AWG, 1000' MAX.** (TYPICAL EACH CHANNEL)
FOUR CHANNEL SYSTEM

1) Detection systems of 5 - 8 channels consist of a duplicate 4 channel enclosure with up to 4 additional receivers. The general arrangement is duplicated for the second enclosure. The two enclosures are connected together to maintain Nema-4X rating.
A14 RECEIVER TERMINAL DESIGNATIONS

TB1
1: (+12) ............ Module Power Positive (12 VDC)
2: (C) ............... Module Power Common
3: (H+) .............. Audible Horn positive
4: (H-) .............. Audible Horn negative
5: (RR) .............. Remote Reset
6: (RR) .............. Remote Reset
7: (MA+) ............. 4-20 mA Output Positive
8: (MA-) ............. 4-20 mA Output Negative
9: ( ) .............. Earth Ground
10: (TR) ............. Transmitter Input
11: (TR) ............. Transmitter Input

TB2
1: (A1 NO) .......... Alarm 1 Normally Open Contact
2: (A1 C) ............ Alarm 1 Common
3: (A1 NC) ........... Alarm 1 Normally Closed Contact
4: (A2 NO) .......... Alarm 2 Normally Open Contact
5: (A2 C) ............ Alarm 2 Common
6: (A2 NC) ........... Alarm 2 Normally Closed Contact
7: (A3 NO) .......... Alarm 3 Normally Open Contact
8: (A3 C) ............ Alarm 3 Common
9: (A3 NC) ........... Alarm 3 Normally Closed Contact
10: (TROUBLE NC) ... Trouble Normally Closed Contact
11: (TROUBLE C) ... Trouble Common
12: (TROUBLE NO) ... Trouble Normally Open Contact

CAUTION: AC power input must be properly earth grounded for safe operation. 220 VAC power without a neutral line may not be used with this power supply.
Typical Wiring for Large 3 Module, Large 6 Module, 9 Module & 12 Module Enclosures

ATI-0544
#80-0009 BATTERY BACKUP ENCLOSURE

## Notes

1. **Enclosure Ratings:**
   - Nema-4X / IP 65
2. **Enclosure Material:**
   - Polystyrene base and cover, hinged transparent door with push-release latch.
3. **Knockouts:**
   - Pg 13.5 (.825” dia.)
   - Pg 16 (.90” dia.)
   - Pg 21 (1.15” dia.)
   - Pg 29 (1.50” dia.)
**#80-0007 THREE MODULE ENCLOSURE (STANDARD)**

**#80-0033 THREE MODULE ENCLOSURE (DEEP)**

KNOCKOUTS FOR WALL MOUNTING ENCLOSURE
#6 SCREWS, TYPE 4 PLCs.
SURFACE MOUNT INSTALLATION

1) Screws are inserted into blind recess in corners of enclosure. Cover must be removed for access to screw recesses.

2) Mounting template supplied for mounting hole locations.

3) All mounting hardware is supplied by customer.

4) Receiver and Transmitter enclosures are mounted in the same fashion.

5) For outdoor installations, a sun shade is recommended.

REMOVING KNOCKOUTS

1) To remove knockouts, place a thin bladed screwdriver into the circular slot or the desired knockout size and tap firmly with a hammer.

MOUNTING/REMOVING RECEIVER MODULES

1) Mounting of receiver modules is done by clipping them to a standard 35 x 7.5 mm DIN rail. A spring loaded clip holds the module to the rail and is used for mounting and removal. From the front, the clip is seen as a black loop at the top rear of the module. To remove from a rail, place a small screwdriver into the opening in the black loop and pull outward until the module releases from the rail. Reverse the procedure to mount the module.
### A11 SENSOR / TRANSMITTER

<table>
<thead>
<tr>
<th>Dimensions</th>
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<tbody>
<tr>
<td>3.70&quot; (94mm)</td>
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<tr>
<td>1.10&quot; (28mm)</td>
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### NOTES

1) **Enclosure Ratings:**
   - Nema-4X / IP 66

2) **Enclosure Material:**
   - Polystyrene base and cover, Standard Gray

3) **Knockouts:**
   - Pg 11 (.75" dia.)
   - Pg 16 (.90" dia.)

### A11 SENSOR / TRANSMITTER WITH AUTO-TEST GENERATOR

### A11 SENSOR / TRANSMITTER - EXPLOSION-PROOF

<table>
<thead>
<tr>
<th>Dimensions</th>
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<tbody>
<tr>
<td>6.07&quot; (154mm)</td>
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### NOTES

1) **Enclosure Ratings:**
   - CLASS I, GROUPS B,C,D
   - CLASS II, GROUPS E,F,G
   - CLASS III

2) **Assembly:** normally mounted directly to suitable explosion-proof conduit.

3) **To maintain integrity:**
   - explosion-proof conduit and cable entry seals are required by local electrical codes.
**A11 TRANSMITTER w/ A10 SENSOR CALIBRATION ADAPTER**

![Diagram of A11 TRANSMITTER w/ A10 SENSOR CALIBRATION ADAPTER](image1)

**A11 TRANSMITTER w/ A10 SENSOR FLOWCELL ASSEMBLY**

![Diagram of A11 TRANSMITTER w/ A10 SENSOR FLOWCELL ASSEMBLY](image2)
CABLE GLAND INSTALLATION

NOTES

1) Mount Transmitter to wall with screws inserted in blind mounting holes, (accessible with cover removed.

2) Cable gland supplied uses Pg 11 knockout. Use extreme care in removing knockout. Score inside of concentric knockout with razor knife.

3) Sun shade is recommended for outdoor applications.

CONDUIT MOUNT INSTALLATION

1) Transmitter may be supported by conduit or screwed to wall through blind mounting holes.

2) Sun shade is recommended for outdoor applications.

REMOVING KNOCKOUTS

1) To remove knockouts, place a thin bladed screwdriver into the circular slot or the desired knockout size and tap firmly with a hammer.

2) Remove Transmitter PCB prior to removing knockouts, to prevent damage to the PCB.