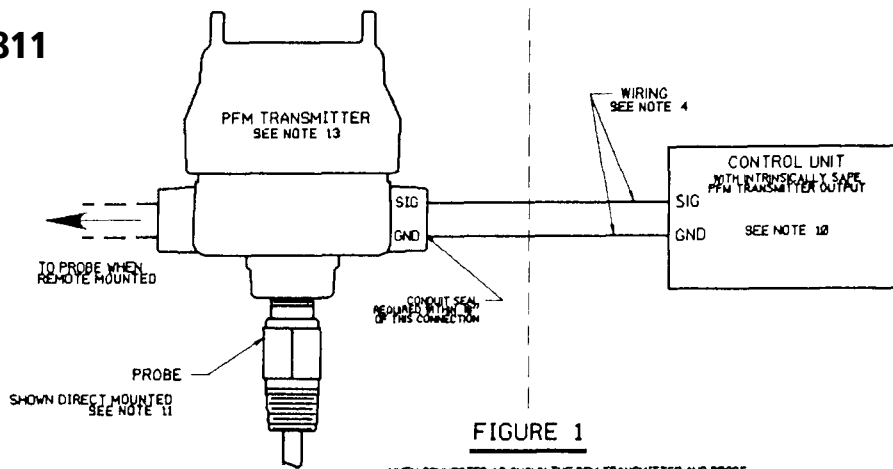


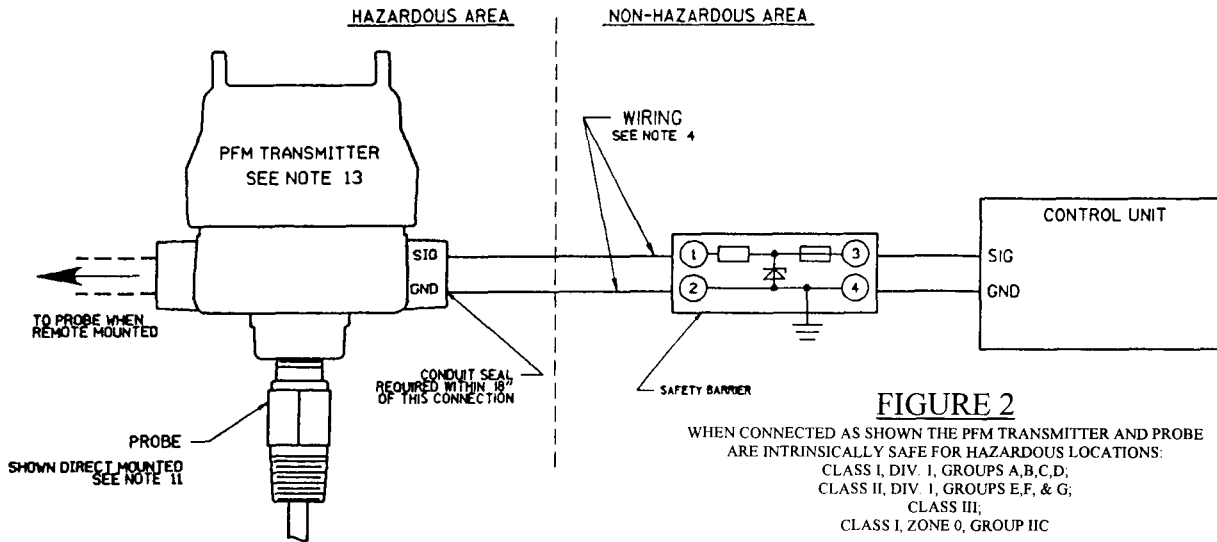
# Drawing 907GA811

(For 900GA336 PFM)



**FIGURE 1**

WHEN CONNECTED AS SHOWN THE PFM TRANSMITTER AND PROBE ARE INTRINSICALLY SAFE FOR HAZARDOUS LOCATIONS. SEE NOTE 9



**FIGURE 2**

WHEN CONNECTED AS SHOWN THE PFM TRANSMITTER AND PROBE ARE INTRINSICALLY SAFE FOR HAZARDOUS LOCATIONS:  
 CLASS I, DIV. 1, GROUPS A, B, C, D;  
 CLASS II, DIV. 1, GROUPS E, F, & G;  
 CLASS III;  
 CLASS I, ZONE 0, GROUP IIC

## Notes:

- Selected safety barriers shall be listed or approved with intrinsically safe circuits for Class I, II, and III, Division 1, Groups A, B, C, D, E, F and G, and Class I, Zone 0, Group IIC as appropriate for the application.
- Output current of barrier must be limited by a resistor such that the output voltage current plot is a straight line drawn between open circuit voltage and short circuit current.
- Safety barriers must be installed in accordance with manufacturer's installation instructions.
- Safety barriers and its intrinsically safe wiring must be installed in accordance with articles 504 of NEC ANSI/NFPA 70 or, if applicable, with the Canadian Electrical Code.
- The safety barrier must meet the following parameters:
 

$V_{oc} < V_{max} = 15.7 \text{ V}$	$C_a > C_i + C_{\text{cable}}$
$I_{ec} < I_{max} = 386.8 \text{ mA}$	$L_a > L_i + L_{\text{cable}}$
- If the electrical parameters of the cable are unknown, the following values must be used:
 

Capacitance = 60 pF/ft.	
Inductance = 0.20 uH/ft.	
Example: 1000 feet of cable would equal: C cable = 1000 x 60 pF = 0.06	uFL cable = 1000 x 0.20 uH = 0.2 mH
- If the safety barrier requires an earth ground then the resistance between the terminal on the safety barrier and earth ground shall be less than 1 ohm.
- The PFM Transmitter entity parameters are:
 

$V_{max} = 15.7 \text{ V}$	$C_i = 0.54 \text{ uF}$
$I_{max} = 386.8 \text{ mA}$	$L_i = 0$
- Recommended safety Barriers:
  - R. Stahl incorporated No. 9001/01-158-390-10 (UL Listed, FM Approved & CSA Certified)
  - Measurement Technology Ltd. No. MTL 715P+ (FM Approved & CSA Certified)
- The control unit must have an intrinsically safe PFM Output and be listed or approved and have entity parameters as described in Note 5.
- Robertshaw Model 702, 728, 729, 736, 737, 738, 739, 740, 741, 750, 150KB284 or 150KB285 probe. Insulated probes only may be used in Class II, Group E & F areas.
- Tighten PFM field wiring terminal screws to 5 pound-inches (0.56Nm)
- PFM Transmitter, Part Numbers 900GA336-01 & -03 are probe mounted. Part Numbers 900GA336-02 & -04 are remote mounted.