

# Fox Thermal Instruments, Inc.

399 Reservation Road, Marina, CA 93933  
 Phone: (831) 384-4300 Fax: (831) 384-4312  
 sales@foxthermalinstruments.com

# Application Data Sheet

## Model FT3 Flow Meters

2/18/2014

### CUSTOMER INFORMATION

Company Name and Address:

Phone:

Contact:

Email Address:

Customer P.O. Number:

Tag Number: (20 characters maximum)

For Fox Office Use:  
**Model #:**  
**S.O. #:**  
**Serial #:**

### PROCESS DETAILS

**Application Description**  
 Describe type of application (e.g. boiler feed, flare gas, etc.).

**Gas Information**  
 Gas Name:

**Mixed Gas Information**  
 Please attach a gas composition analysis.  
 Indicate if data is % Volume (moles) or % Weight (mass).  
 Total composition must add up to 100%.

Process Conditions			
Minimum	Nominal	Maximum	Units
Flow Rate:			
Temperature:			
Pressure:			

The FT3 electronics enclosure must be installed in an ambient temperature environment as follows:

- Enclosure without display or AC power supply: -40°F to 158°F (-40°C to 70°C)
- Enclosure with display or AC power supply: -4°F to 158°F (-20°C to 70°C)

Check this box if your application is outside of these limits.

### Non Resettable Totalizer

Configure as Non Resettable Totalizer.

### INSTRUMENT DETAILS

#### Flow meter and Display Orientation - See Code Sheet

- D1     D2     D3     D4  
 D5     D6     D7     D8  
 N/A for Remote     N/A - no display

#### Temperature Setup

4 mA Value \_\_\_\_\_ 20 mA Value \_\_\_\_\_

Temperature Units: F  or C

#### Flow Rate 4 to 20 mA Scaling and Display Units Selection

##### Output Units:

- |                                |                                 |                                |                               |
|--------------------------------|---------------------------------|--------------------------------|-------------------------------|
| <input type="checkbox"/> SCFM  | <input type="checkbox"/> NLPS   | <input type="checkbox"/> SMPS  | <input type="checkbox"/> KG/S |
| <input type="checkbox"/> SCFH  | <input type="checkbox"/> NLPM   | <input type="checkbox"/> SM3/M | <input type="checkbox"/> KG/M |
| <input type="checkbox"/> SCFD  | <input type="checkbox"/> NLPH   | <input type="checkbox"/> SM3/H | <input type="checkbox"/> KG/H |
| <input type="checkbox"/> NMPS  | <input type="checkbox"/> MSCFD  | <input type="checkbox"/> SM3/D | <input type="checkbox"/> SLPM |
| <input type="checkbox"/> NM3/M | <input type="checkbox"/> MMSCFD | <input type="checkbox"/> LB/S  | <input type="checkbox"/> SFPM |
| <input type="checkbox"/> NM3/H | <input type="checkbox"/> MMSCFM | <input type="checkbox"/> LB/M  | <input type="checkbox"/> MT/H |
| <input type="checkbox"/> NM3/D | <input type="checkbox"/> MCFD   | <input type="checkbox"/> LB/H  | <input type="checkbox"/> LB/D |

4 mA Value: \_\_\_\_\_ (Normally Zero)  
 20 mA Value: \_\_\_\_\_

#### Standard Temperature and Pressure (STP)

- Standard:
- 60°F and 14.73 psia (AGA standard for natural gas)
  - 70°F and 14.73 psia
  - 0°C and 760mm Hg
  - N/A for lbs or kg units
- Other (indicate units):  \_\_\_\_\_ and \_\_\_\_\_

### PIPING INFORMATION AND STRAIGHT PIPE REQUIREMENTS

Pipe size \_\_\_\_\_ Schedule \_\_\_\_\_ Pipe ID\* \_\_\_\_\_ Duct Dimensions\* \_\_\_\_\_

\* Accurate pipe/duct inside diameter required for Insertion Flow Meter applications to ensure correct flow rate calculation.

Insertion Flow meters: Fox recommends 15 pipe diameters of straight pipe upstream of the flow meter and 10 diameters downstream.

Inline Flow meters: Fox recommends 8 pipe diameters of straight pipe upstream of the flow meter and 4 diameters downstream.

If you do not have the recommended straight pipe please enter upstream and downstream information for your application:

\_\_\_\_\_ straight pipe diameters upstream of the flow meter.

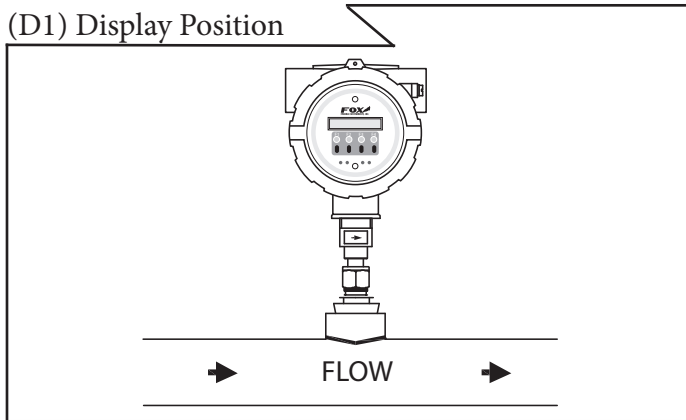
\_\_\_\_\_ straight pipe diameters downstream of the flow meter.

**For Fox Office Use:**  
 Velocity: \_\_\_\_\_ SFPM

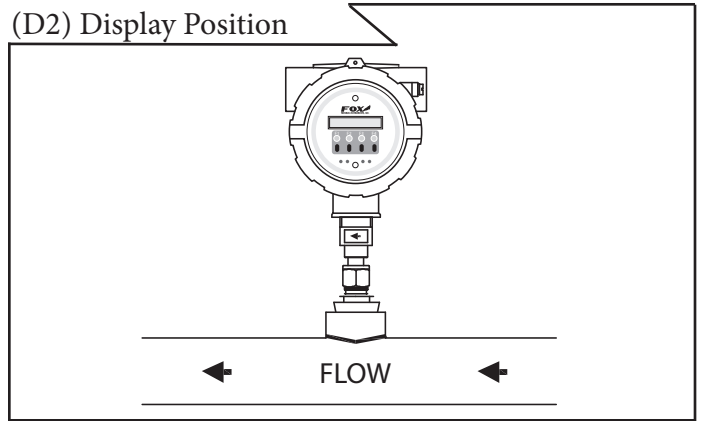
Rep/Distributor: \_\_\_\_\_ Contact: \_\_\_\_\_

<b>Factory Use Only:</b>	Tunnel	Cal. Gas	Hours	psig	Cal. Pres.
--------------------------	--------	----------	-------	------	------------

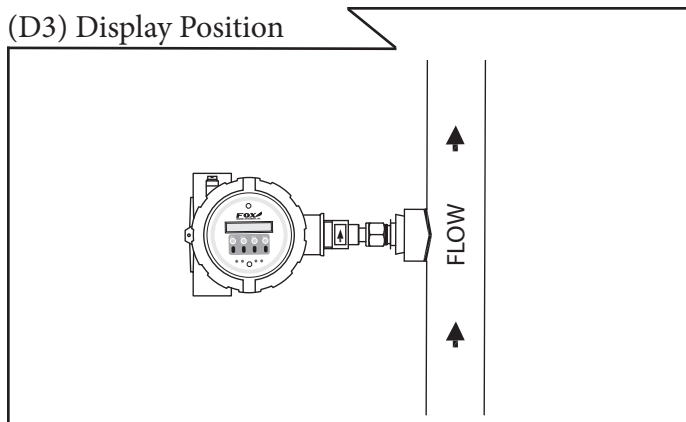
(D1) Display Position



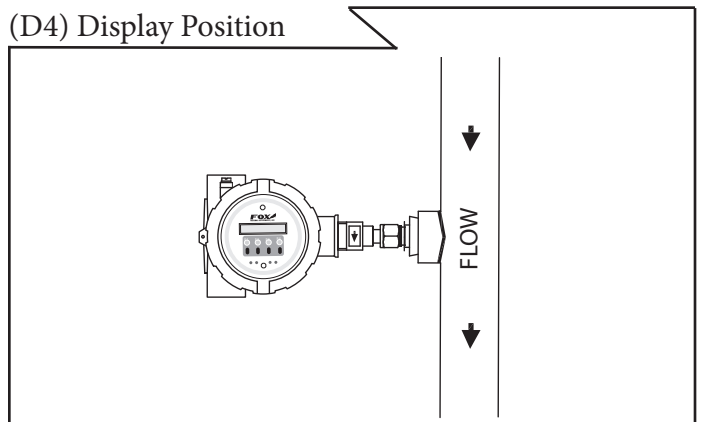
(D2) Display Position



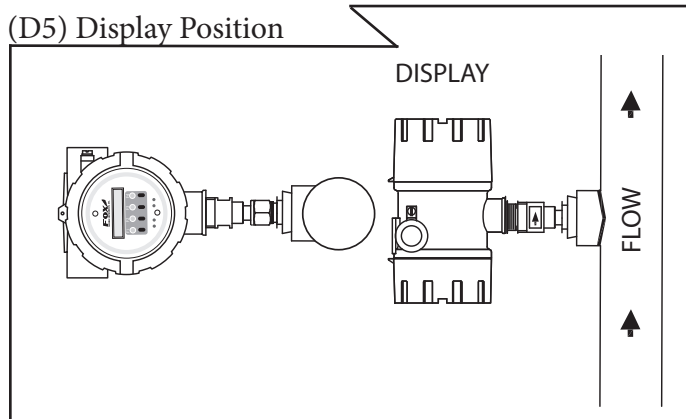
(D3) Display Position



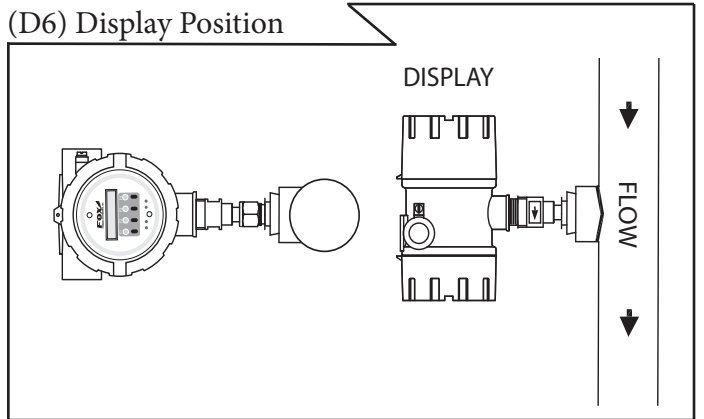
(D4) Display Position



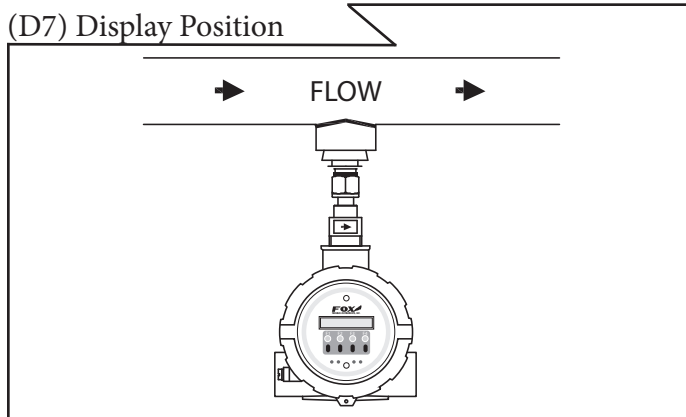
(D5) Display Position



(D6) Display Position



(D7) Display Position



(D8) Display Position

