

# 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.
--------------------------	--------	----------	-------	------	------------