

# Fox Thermal Instruments, Inc.

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# Application Data Sheet

## Model FT3 Flow Meters

02/18/14

### CUSTOMER INFORMATION

Company Name and Address:  
**Brand X**  
**1234 Main St.**  
**Cityville, ST 99999**

Phone: **555-555-5555**

Contact: **Jane Doe**

Email Address: [jane.doe@email.com](mailto:jane.doe@email.com)

Customer P.O. Number:

Tag Number: **(20 characters maximum)**  
**FIT-1010**

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

### PROCESS DETAILS

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

**Flare**

**Gas Information**  
 Gas Name:  
**Flare Gas - 70% C1, 15% C2, 6% C3, 5% C4, 3% CO2, 1% H2S**

**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:	<u>0</u>	<u>0.5</u>	<u>1.0</u>	MMSCFD ▼
Temperature:	<u>50</u>	<u>85</u>	<u>125</u>	Deg F ▼
Pressure:	<u>1</u>	<u>2</u>	<u>25</u>	PSIG ▼

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.

### INSTRUMENT DETAILS

**Flow meter and Display Orientation - See Code Sheet**  
 D1 ▼

Temperature Units: Deg F ▼

4 mA Value: 0  
 20 mA Value: 200

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

Flow Rate Units: MMSCFD ▼

4 mA Value: 0 (Normally 0)  
 20 mA Value: 15

**Standard Temperature and Pressure (STP)**  
 60°F and 14.73 psia (AGA standard for natural gas) ▼

Other - select values & units: \_\_\_\_\_ and \_\_\_\_\_

**Comments:**  
**Calibrate for 0-1 MMSCFD, Over Range up to 15 MMSCFD for upset condition**

**Non Resettable Totalizer**  
 Configure as Non Resettable Totalizer.

### PIPING INFORMATION AND STRAIGHT PIPE REQUIREMENTS

Pipe size: 8" Schedule: 40 Pipe ID\*: 7.981" 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:

16 straight pipe diameters upstream of the flow meter.

12 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.
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