

KELE FT2A Order Form Directions

Subject: Step By Step Order Form Process for FOX Thermal Instruments FT2A
Contents: Directions w/explanations to fill out each section of the form.
Official FT2A Form. Must be filled out by the customer.
Flow Meter Display Orientation Code Sheet (Needed to fill out the FT2A Form)

*** Indicates Required Information**

1. Customer Information
 - a. *Contractor Name and address
 - b. *Contractor phone number
 - c. *Contractor Contact name
 - d. E-mail Address
 - e. PO number (Not required)
 - f. Instrument tag Number (Not Required)
 - g. FOX Office Use: Do not fill in
2. Process Details
 - a. *Just a short description of the application
 - b. *Identify the gas name. (Air, Propane or Natural gas or Oxygen or Nitrogen etc.)
 - c. Mixed gas pertains to a mixture of 2 or more gases. If this is needed call the factory.
3. Process Conditions
 - a. *Flow rate: "Minimum, Normal, and *Maximum" *Units (Typically SCFM or SCFH)
 - b. *Temperature: What is the maximum temp. of the gas? *Units (°F or °C) Must be <250°F
This only a check that it's < 250°F. It can be as cold as the environment.
 - c. *Pressure: What is the maximum pressure of the gas? *Units (PSIG) Must be <740 PSIG
This only a check that it's < 740 PSIG. There is no minimum pressure.
4. Non-Resettable Totalizer (Unit comes standard with a Re-settable totalizer)
 - a. Only check in if you need a Non-Re-settable totalizer.
5. Instrument Details
 - a. *Flow Meter Orientation: Check (F1..F8). See "**Orientation Code Sheet**" and ID letter below.
 - b. Temperature Setup: This is a second analog output for information only output setup.
Limits are (-40 to 250°-F) or (-40 to 121°C). Most often this is 0-100°F
 - c. *Gas Flow Rate and Scale: This will be similar to the "Process Conditions" already filled out.
*Check off the gas measurement engineering units
*4 mA = Low value of the engineering units checked off (often this is zero 0)
*20 mA = High value of the engineering units checked off (often this = maximum flow)
 - d. *Standard Temperature & Pressure: Check off the typical Temperature & Pressure
Most often this is ☐ 60°F & 14.73 psia
6. Pipe Information and Straight Pipe Requirements
 - a. *What is the Pipe size? This is typical for pressurized gas applications.
 - b. *What is the Pipe schedule? This is typical for pressurized gas applications.
 - c. *What is the Pipe Inside Diameter (ID)? This is typical for pressurized gas applications.
 - d. *What is the Duct size W x H? This is typical for air duct applications.
*Is the Duct rectangular or round or oval? This is typical for air duct applications.
 - e. What is the upstream pipe diameters? See sizing Information on the form.
 - f. What is the downstream pipe diameters? See sizing Information on the form.
Note: Upstream/Downstream diameters are needed to maintain sensor specified accuracy.
This often times is impossible so be aware that the meter will still work but the accuracy may suffer the closer the pipe bends are to the sensor.
7. The rest of the information on the form is for the manufacturer. This completes the form.

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Application Data Sheet**Model FT2A Flow Meters**

10/1/2013

CUSTOMER INFORMATION

Company Name and Address:

Customer P.O. Number:

Tag Number: (20 characters maximum)

Phone:

For Fox Office Use:

Model #:

Contact:

S.O. #:

Email Address:

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:			

Non Resettable Totalizer☐ Configure as Non Resettable Totalizer.**INSTRUMENT DETAILS****Flow meter and Display Orientation - See Code Sheet**

☐ F1 ☐ F2 ☐ F3 ☐ F4
☐ F5 ☐ F6 ☐ F7 ☐ F8
☐ N/A for Remote

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"/> LB/S	<input type="checkbox"/> SLPM
<input type="checkbox"/> NM3/M	<input type="checkbox"/> MMSCFD	<input type="checkbox"/> LB/M	<input type="checkbox"/> SFPM
<input type="checkbox"/> NM3/H	<input type="checkbox"/> MMSCFM	<input type="checkbox"/> LB/H	<input type="checkbox"/> MT/H
<input type="checkbox"/> NM3/D	<input type="checkbox"/> MCFD	<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:

Factory Use Only:

Tunnel

Cal. Gas

Hours

psig

Cal. Pres.

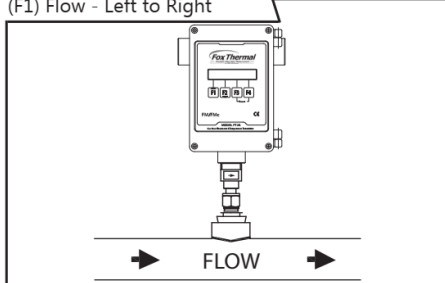
Flow Meter Display Orientation Code Sheet



Fox Thermal Instruments FT2A Display Configuration Codes

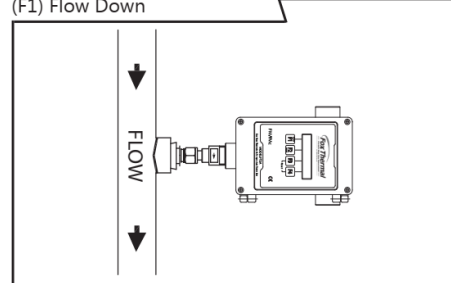
FLOW DIRECTION - NO ELBOW KIT

(F1) Flow - Left to Right



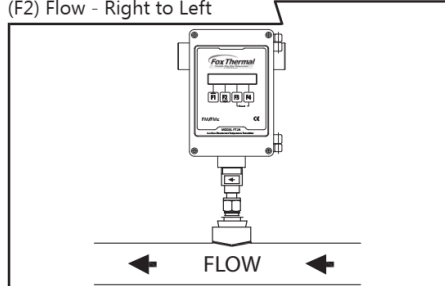
OR

(F1) Flow Down



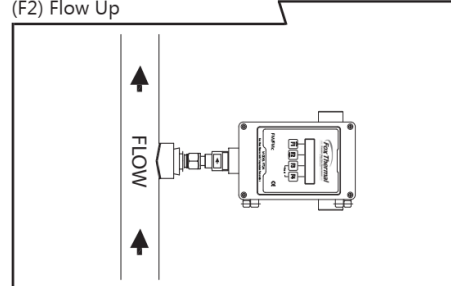
FLOW DIRECTION - NO ELBOW KIT

(F2) Flow - Right to Left



OR

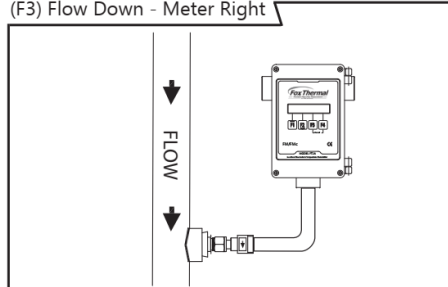
(F2) Flow Up



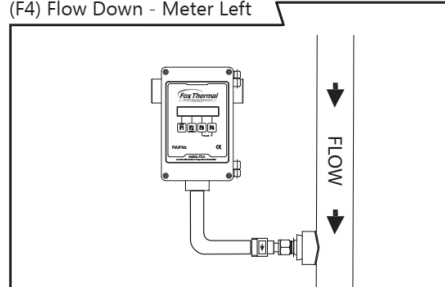
VERTICAL FLOW DIRECTION AND FLOWMETER POSITION

** Elbow Kit required (P/N 102299) - EXTRA CHARGE OPTION **

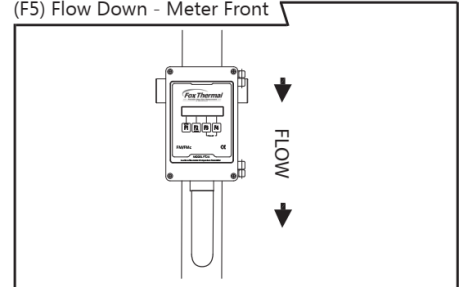
(F3) Flow Down - Meter Right



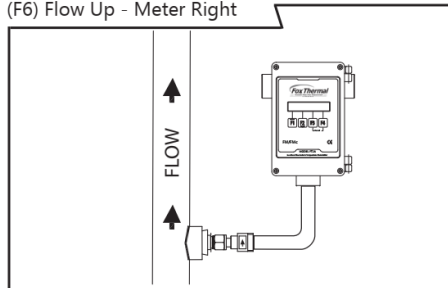
(F4) Flow Down - Meter Left



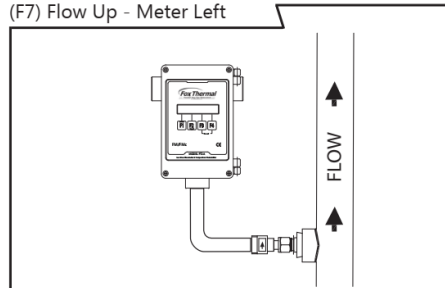
(F5) Flow Down - Meter Front



(F6) Flow Up - Meter Right



(F7) Flow Up - Meter Left



(F8) Flow Up - Meter Front

