

**FT2A Insertion Flow Meter/Temperature Transmitter  
MODEL CODES**

**MODEL FT2A**

	Code	Description
<b>Parent Model No.*</b>	FT2A	Insertion Mass Flow meter & Temperature Transmitter; includes display
<b>Feature 1: Probe*</b>	06IE	Insertion meter with 6-inch probe (all 6" probes will have an equal length sensor)
<div style="border: 1px dashed black; padding: 2px; margin-bottom: 5px;">See "Calculating Probe Lengths" Below</div> <div style="border: 1px dashed black; padding: 2px; margin-bottom: 5px;">3/4" MNPT compression fitting included at no charge</div> <div style="border: 1px dashed black; padding: 2px;">Adding an "E" after the probe code (i.e. 091E, 18RE, etc.) will provide an equal length sensor. Equal length sensors must be specified for 1.5" (40mm) and 2" (50mm) pipes. 15R is shipped standard with an equal length sensor.</div>	09I	Insertion meter with 9-inch probe
	12I	Insertion meter with 12-inch probe
	15I	Insertion meter with 15-inch probe
	18I	Insertion meter with 18-inch probe
	24I	Insertion meter with 24-inch probe
	30I	Insertion meter with 30-inch probe
	36I	Insertion meter with 36-inch probe
	15R	15" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts
	18R	18" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts
	24R	24" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts
	30R	30" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts
	36R	36" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts
	R1	Crank Retractor 1.5" NPT, 600 PSI, no valve - 316 SS wetted parts**
	R2	Crank Retractor 1.5", 150# flange, no valve - 316 SS wetted parts**
	R3	Crank Retractor 1.5", 300# flange, no valve - 316 SS wetted parts**
	Probes over 36" and flange mounting options	
<b>Feature 2: Sensor Material*</b>	SS	316 stainless steel sensor and compression fitting
	SH	Hastelloy C-276 sensor w/ 316SS compression fitting
	SJ	Hastelloy C-276 sensor and probe; Monel compression fitting
	SL	Hastelloy C-276 sensor and probe; Hastelloy C-276 compression fitting
<b>Feature 3: Sensor Type*</b>	ST	Standard Sensor -40 to 250F (-40 to 121C)
	HT	High Temperature Sensor -40 to 650F (-40 to 343C) E3 or E4 required - AIR ONLY, 8,000 SFPM Max
<b>Feature 4: Enclosure and Power*</b>	E1	Local NEMA 4X enclosure, 24VDC powered
	E2	Local NEMA 4X enclosure, 85 to 264VAC powered
	E3	Remote J-box, 24VDC powered, 100' max, cable sold separately ***
	E4	Remote J-box, 85 to 264VAC powered, 100' max, cable sold separately ***
<b>Feature 5: Bus Options*</b>	B0	No communication bus
	MB	Modbus RTU (RS 485)
	BN	BACnet MS/TP (RS 485)
	BD	DeviceNet
	BP	Profibus-DP
	BE	Ethernet Modbus TCP
<b>Feature 6: Calibration*</b>	G1	Air, N2: MF less than 1200 SCFM (2040 NM3H)
	G2	Air, N2: MF above 1200 SCFM (2040 NM3H)
	G3	Ar, CO2, H2, CH4, Natural Gas, O2: MF less than 1000 SCFM (1700 NM3H)****
	G4	Ar, CO2, H2, CH4, Natural Gas, O2: MF above 1000 SCFM (1700 NM3H)****
	G5	CO, He, Ammonia, Propane: MF less than 700 SCFM (1190 NM3H)
	G6	CO, He, Ammonia, Propane: MF above 700 SCFM (1190 NM3H)
	G7	Biogas, Digester Gas, Flare Gas, Flash Gas, Vent Gas****
		All other gases
<b>Optional</b>	NRT	Non Resettable Totalizer

OPTIONS	
Part #	Description
108046	1.5" FC10 SS Flow Conditioner*****
108047	2" FC10 SS Flow Conditioner*****
108048	2.5" FC10 SS Flow Conditioner*****
108049	3" FC10 SS Flow Conditioner*****
108050	4" FC10 SS Flow Conditioner*****
108051	5" FC10 SS Flow Conditioner*****
108052	6" FC10 SS Flow Conditioner*****
108053	8" FC10 SS Flow Conditioner*****
108054	10" FC10 SS Flow Conditioner*****

OPTIONS	
Part#	Description
101570	5-conductor, 18 AWG PVC shielded cable for remote. Specify feet (100' max.)
102299	90 degree elbow kit - makes housing upright in vertical pipes (E1 or E2 only)
890000	Flow meter cleaned and bagged for Oxygen service
105758	Remote Mounting Kit (E3 or E4 only)
102878	Teflon Ferrule Kit, 60psi max.
105397	Extra instruction manual
104870	USB Cable, A-male/mini USB-B male, 6 feet
100657	Stainless Steel Tags
999992	Certificate of Conformance
999995	Certificate of Origin

**NOTES:** \* The Parent Model Number and one of each Feature must be specified.  
 Example: FT2A-09I-SS-ST-E2-B0-G1  
 \*\* Retractors R1 - R3: Minimum pipe size is 2.5". Maximum pipe size is 1/2 the pipe diameter + valve dimension cannot exceed 19.5"  
 \*\*\* Recommend 105758 Remote Mounting Kit option  
 \*\*\*\*G3 and G4 refer to pipeline-quality dry natural gas, whereas naturally occurring gas from oil fields constitutes a mixed gas requiring a G7 calibration  
 \*\*\*\*\* FC10 Flow Conditioners are designed for use in schedule 40 pipes only

Insertion flow meters can be installed on 1.5" pipes or larger. Quote Inline Flow meters for pipes smaller than 1.5".  
 Calculating Probe Length - Position the Fox Sensor in the center of the pipe. Use the following to calculate the probe length:  
 Probe Length = 1/2 pipe diameter (D) + 3" + insulation + retractor (for codes 15R through 36R, add 10"). Round up to next larger probe available.  
 Always quote an equal length sensor for 1.5" (40mm) and 2" (50mm) pipes.  
 D = pipe diameter; Insulation = Thickness of insulation ( if any); Retractor = Dimension of retractor (10"), if supplied.  
 Example 1: Pipe ID = 10", no insulation or retractor: 5" + 3" = 8". Round up to 9" probe (09I).  
 Example 2: Pipe ID = 10" with retractor, no insulation: 5" + 3" + 10"(retractor) = 18" (18R probe with retractor).

**FT2A Inline Flow Meter/Temperature Transmitter  
MODEL CODES**

**MODEL FT2A**

	Code	Description
Parent Model No.*	FT2A	Inline Mass Flow Meter & Temperature Transmitter; includes display
Feature 1 : Flow body*		<b>316 Stainless steel flow body</b>
	025P	1/4 inch, male NPT ends (schedule 40) 5.8" Face-to-face
	05P	1/2 inch, male NPT ends (schedule 40) 12" Face-to-face
	075P	3/4 inch, male NPT ends (schedule 40) 12" Face-to-face
	10P	1 inch, male NPT ends (schedule 40) 12" Face-to-face
	125P	1.25 inch, male NPT ends (schedule 40) 12" Face-to-face
	15P	1.5 inch, male NPT ends (schedule 40) 12" Face-to-face
	20P	2 inch, male NPT ends (schedule 40) 12" Face-to-face
	25P	2.5 inch, male NPT ends (schedule 40) 18" Face-to-face
	30P	3 inch, male NPT ends (schedule 40) 18" Face-to-face
	05F	1/2 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	075F	3/4 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	10F	1 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	125F	1.25 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	15F	1.5 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	20F	2 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	25F	2.5 inch, 150# RF flanges (schedule 40) 18" Face-to-face
	30F	3 inch, 150# RF flanges (schedule 40) 18" Face-to-face
	40F	4 inch, 150# RF flanges (schedule 40) 18" Face-to-face **
	60F	6 inch, 150# RF flanges (schedule 40) 24" Face-to-face **
		<b>A106 Grade B carbon steel flow body (+ A105 flanges - if ordered)*****</b>
	20PC	2 inch, male NPT ends (schedule 40) 12" Face-to-face
	25PC	2.5 inch, male NPT ends (schedule 40) 18" Face-to-face
	30PC	3 inch, male NPT ends (schedule 40) 18" Face-to-face
	20FC	2 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	25FC	2.5 inch, 150# RF flanges (schedule 40) 18" Face-to-face
	30FC	3 inch, 150# RF flanges (schedule 40) 18" Face-to-face
	40FC	4 inch, 150# RF flanges (schedule 40) 18" Face-to-face **
	60FC	6 inch, 150# RF flanges (schedule 40) 24" Face-to-face **
Feature 2: Sensor Material*	SS	316 stainless steel sensor and flow body
	SH	316SS flow body with Hastelloy C276 sensor
Feature 3: Sensor Type*	ST	Standard Sensor -40 to 250F (-40 to 121C)
	HT	High Temperature Sensor -40 to 650F (-40 to 343C) E3 or E4, required - AIR ONLY 8,000 SFPM Max
Feature 4: Enclosure and Power*	E1	Local NEMA 4X enclosure, 24VDC powered
	E2	Local NEMA 4X enclosure, 85 to 264VAC powered
	E3	Remote J-box, 24VDC powered, 100' max, cable sold separately ***
	E4	Remote J-box, 85 to 264VAC powered, 100' max, cable sold separately ***
Feature 5: Bus Options*	B0	No communication bus
	MB	Modbus RTU (RS 485)
	BN	BACnet MS/TP (RS 485)
	BD	DeviceNet
	BP	Profibus-DP
	BE	Ethernet Modbus TCP
Feature 6: Calibration*	G1	Air, N2: MF less than 1200 SCFM (2040 NM3H)
	G2	Air, N2: MF above 1200 SCFM (2040 NM3H)
	G3	Ar, CO2, H2, CH4, Natural Gas, O2: MF less than 1000 SCFM (1700 NM3H)****
	G4	Ar, CO2, H2, CH4, Natural Gas, O2: MF above 1000 SCFM (1700 NM3H)****
	G5	CO, He, Ammonia, Propane: MF less than 700 SCFM (1190 NM3H)
	G6	CO, He, Ammonia, Propane: MF above 700 SCFM (1190 NM3H)
	G7	Biogas, Digester Gas, Flare Gas, Flash Gas, Vent Gas****
		All other gases
Optional	NRT	Non Resettable Totalizer

MF = Maximum Flow Rate  
Calibration prices listed here are for  
new flowmeter orders only.  
Contact Fox for recalibration prices.

OPTIONS	
Part #	Description
105397	Extra instruction manual
104870	USB Cable, A-male/mini USB-B male, 6 feet
100657	Stainless Steel Tags
999992	Certificate of Conformance
999995	Certificate of Origin

OPTIONS	
Part#	Description
101570	5-conductor, 18 AWG PVC shielded cable for remote. Specify feet (100' max.)
102299	90 degree elbow kit - makes housing upright in vertical pipes (E1 or E2 only)
890000	Flow meter cleaned and bagged for Oxygen service
105758	Remote Mounting Kit (E3 or E4 only)
990056	Canadian Registration Number (CRN) engraved on flow body

Notes: \* The Parent Model Number and one of each Feature must be specified.  
Example: FT2A-20P-SS-ST-E2-B0-G1  
\*\* Above 2,500 SCFM (4,250 NM3H) consult factory for calibration charge.  
\*\*\* Recommend 105758 Remote Mounting Kit option  
\*\*\*\*G3 and G4 refer to pipeline-quality dry natural gas, whereas naturally occurring gas from oil fields constitutes a mixed gas requiring a G7 calibration  
\*\*\*\*\*Canadian Registration Number (CRN) is not available on carbon steel flow bodies