

MODEL FT3 INSERTION METER

	Code	Description		
Parent Model No.*		Insertion Mass Flowmeter & Temperature Transmitter		
Feature 1: Probe*	06IE	Insertion meter with 6-inch probe (all 6" probes will have an equal length sensor)		
	091	Insertion meter with 9-inch probe		
See "Calculating	12I	Insertion meter with 12-inch probe		
Probe Lengths" Below	15I	Insertion meter with 15-inch probe		
	18I	Insertion meter with 18-inch probe		
³ / ₄ " MNPT compression fitting incl. standard	241	Insertion meter with 24-inch probe		
	301	Insertion meter with 30-inch probe		
Adding an "E" after the probe code	361	Insertion meter with 36-inch probe		
(i.e. 09IE, 18RE) will provide an equal	15R	15-inch probe w/ 125-psi retractor & full-port valve, 3/4" male NPT, 316 SS wetted parts		
length sensor. Equal length sensors		18-inch probe w/ 125-psi retractor & full-port valve, 3/4" male NPT, 316 SS wetted parts		
are required for 1.5" (40mm) and		24-inch probe w/ 125-psi retractor & full-port valve, 3/4" male NPT, 316 SS wetted parts		
2" (50mm) pipes. 15R includes an	30R	30-inch probe w/ 125-psi retractor & full-port valve, 3/4" male NPT, 316 SS wetted parts		
equal length sensor standard.	36R	36-inch probe w/ 125-psi retractor & full-port valve, 3/4" male NPT, 316 SS wetted parts		
		Probes over 36" and flange mounting options		
Feature 2: Sensor Material*	SS	316 stainless wetted parts: sensor, probe, and compression fitting		
	SH	Hastelloy C-276 sensor and probe; 316 stainless steel compression fitting		
	SJ	Hastelloy C-276 sensor and probe; Monel compression fitting		
	SL	Hastelloy C-276 sensor and probe; Hastelloy C-276 compression fitting		
Feature 3: Sensor Type*	ST	Standard temperature sensor, -40 to 250F (-40 to 121C)		
	нт	High temp. sensor, -40 to 650F (-40 to 343C), E3 or E4 required, calibration and accuracy limitations		
		apply, not available in 06IE probe size		
Feature 4: Enclosure and Power*	E1	Local explosion-proof enclosure, 24VDC powered		
	E2	Local explosion-proof enclosure, 85-264VAC powered		
	E3	Remote J-box, 24VDC powered, 100' max. cable length (sold separately), option board required**		
	E4	Remote J-box, 85-264VAC powered, 100' max. cable length (sold separately), option board required**		
Feature 5: Display*		No display & configuration panel		
	DD	Include rate/total display & configuration panel		
	DL	Include rate/total display & configuration panel with datalogger option***		
Feature 6: Option Boards*	BO	Blank option board (cannot be selected with E3 or E4 features)		
	B1	Isolated 24VDC power + terminal block for remote sensor		
Do not specify B0 when	MB	RS485 Modbus RTU (includes isolated 24VDC power + terminal block for remote sensor)		
ordering a remote sensor.	BH	HART (includes isolated 24VDC power + terminal block for remote sensor)		
Feature 7: Calibration*	G1	Air, N2: MF less than 1200 SCFM (2040 NM3H)		
	G2	Air, N2: MF above 1200 SCFM (2040 NM3H)		
MF = Maximum Flow Rate G3		Ar, CH4, CO2, H2, O2, Natural Gas****: MF less than 1000 SCFM (1700 NM3H)		
Calibration prices listed here are for G4 new flowmeter orders only. G5		Ar, CH4, CO2, H2, O2, Natural Gas****: MF above 1000 SCFM (1700 NM3H)		
		C3H8, C0, He, NH3: MF less than 700 SCFM (1190 NM3H)		
Contact Fox for recalibration prices.	G6	C3H8, CO, He, NH3: MF above 700 SCFM (1190 NM3H)		
contact fox for recambration proces.	G7	Biogas, Digester Gas, Flare Gas, Flash Gas, Vent Gas, and other mixed gases****		
		All other gases		
		All Vullei yases		

OPTIONS **OPTIONS** Part # Description 104488 Extra FT3 Instruction Manual Part# Description 101570 5-conductor, 18 AWG PVC shielded cable for remote (E3 or E4), 100' max. length 100657 Stainless Steel Tags 104740 Remote Enclosure Mounting Kit (E3 or E4)
 109040
 Sun Shade accessory

 890000
 Flow meter cleaned and bagged for Oxygen service
999992 Certificate of Conformance 999995 Certificate of Origin 104870 USB Cable, A-male/mini USB-B male, 6' length 102878 Teflon Ferrule Kit, 60 psi max. pressure * The Parent Model Number and one of each Feature must be specified. Notes: Example: FT3-09I-SS-ST-E3-DD-B1-G1 ** Recommend 104740 Remote Mounting Kit option *** Datalogger information is only retrievable from the display and over RS485 Modbus. Selecting Modbus (MB) for "Feature 6: Options Boards" is recommended. "Feature 6: Option Boards" is advisable. **** 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 See separate price list for FC20 Flow Conditioners for use with insertion style flow meters. -----Insertion flow meters can be installed on 1.5" (40mm) pipes or larger. Select Inline flow meters for pipes smaller than 1.5" (40mm). Always quote an equal length sensor for 1.5" and 2" pipes (e.g. 06IE, 09IE, 12IE, etc.). Calculating Probe Length - To position the Fox sensor in the center of the pipe, use the following calculation for probe length:

Probe Length = 1/2 the Pipe Diameter + Fitting Height [3" (76mm) default assumption] + Insulation Thickness + Retractor [10" (254mm) for codes 15R through 36R]. Round up to next probe size.

Example 1: Pipe ID = 10" (254mm), no insulation, no retractor: 5" (127mm) + 3" (76mm) + 0" (0mm) + 0" (0mm) = 8" (203mm). Round up to use 09I probe option. Example 2: Pipe ID = 10" (254mm), no insulation, with retractor: 5" (127mm) + 3" (76mm) + 0" (0mm) + 10" (254mm) = 18" (457mm): 18R probe option



MODEL FT3 INLINE METER

	Code	Description		
Parent Model No.*	FT3	Inline Mass Flowmeter & Temperature Transmitter		
Feature 1: Flow Body Size*		316 Stainless Steel Flow Body		
	05P	1/2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length		
	075P	3/4 inch flow body (schedule 40), male NPT ends, 12" face-to-face length		
	10P	1 inch flow body (schedule 40), male NPT ends, 12" face-to-face length		
	125P	1-1/4 inch flow body (schedule 40), male NPT ends, 12" face-to-face length		
	15P	1-1/2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length		
	20P	2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length		
	25P	2-1/2 inch flow body (schedule 40), male NPT ends, 18" face-to-face length		
	30P	3 inch flow body (schedule 40), male NPT ends, 18" face-to-face length		
	05F	1/2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length		
	075F	3/4 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length		
	10F	1 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length		
	125F	1-1/4 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length		
	15F	1-1/2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length		
	20F	2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length		
	25F	2-1/2 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length		
	30F	3 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length		
	40F	4 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length**		
	60F	6 inch flow body (schedule 40), 150# RF flange ends, 24" face-to-face length**		
	001			
		A106 Grade B Carbon Steel Flow Body (w/ A105 flanges if ordered)*****		
	20PC	2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length		
	25PC	2-1/2 inch flow body (schedule 40), male NPT ends, 18" face-to-face length		
	30PC	3 inch flow body (schedule 40), male NPT ends, 18" face-to-face length		
	20FC	2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length		
	25FC	2-1/2 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length		
	30FC	3 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length		
	40FC	4 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length**		
	60FC	6 inch flow body (schedule 40), 150# RF flange ends, 24" face-to-face length**		
Feature 2: Sensor Material*	SS	316 stainless steel sensor and fitting/ferrule		
	SH	Hastelloy C-276 sensor w/ 316 stainless steel fitting/ferrule		
Feature 3: Sensor Type*	ST	Standard temperature sensor, -40 to 250F (-40 to 121C)		
	шт	High temp. sensor, -40 to 650F (-40 to 343C), E3 or E4 required, calibration and accuracy limitations		
	HT	apply		
Feature 4: Enclosure and Power*	E1	Local explosion-proof enclosure, 24VDC powered		
	E2	Local explosion-proof enclosure, 85-264VAC powered		
	E3	Remote J-box, 24VDC powered, 100' max. cable length (sold separately), option board required***		
		Remote J-box, 85-264VAC powered, 100' max. cable length (sold separately), option board		
	E4	required***		
Feature 5: Display*	D0	No display & configuration panel		
Γεαιμίε 5. Display [™]	DD	Include rate/total display & configuration panel		
	DD	Include rate/total display & configuration panel with datalogger option****		
Feature 6: Option Boards*	BO	Blank option board (cannot be selected with E3 or E4 features)		
	B1	Isolated 24VDC power + terminal block for remote sensor		
Do not specify B0 when	MB	RS485 Modbus RTU (includes isolated 24VDC power + terminal block for remote sensor)		
ordering a remote sensor.	BH	HART (includes isolated 24VDC power + terminal block for remote sensor)		
Feature 7: Calibration*	G1	Air, N2: MF less than 1200 SCFM (2040 NM3H)		
	G2	Air, N2: MF above 1200 SCFM (2040 NM3H)		
MF = Maximum Flow Rate	G3	Ar, CH4, CO2, H2, O2, Natural Gas****: MF less than 1000 SCFM (1700 NM3H)		
	G4	Ar, CH4, CO2, H2, O2, Natural Gas****: MF above 1000 SCFM (1700 NM3H)		
	G5	C3H8, CO, He, NH3: MF less than 700 SCFM (1190 NM3H)		
		C3H8, CO, He, NH3: MF above 700 SCFM (1190 NM3H)		
	G6			

OPTIONS

OPTIONS

Part #	Description	Part#	Description
104488	Extra FT3 Instruction Manual	101570	5-conductor, 18 AWG PVC shielded cable for remote (E3 or E4), 100' max. length
100657	Stainless Steel Tags	104740	Remote Enclosure Mounting Kit (E3 or E4)
999992	Certificate of Conformance	109040	Sun Shade accessory
999995	Certificate of Origin	890000	Flowmeter cleaned and bagged for Oxygen service
104870	USB Cable, A-male/mini USB-B male, 6' length	990056	Canadian Registration Number (CRN) engraved on flow body*****

Notes: * The Parent Model Number and one of each Feature must be specified. Example: FT3-20P-SS-ST-E3-DD-B1-G1

** If max. flow rate above 2,500 SCFM (4,250 NM3H), consult factory for application review

*** Recommend 104740 Remote Mounting Kit option

**** Datalogger information is only retrievable from the display and over RS485 Modbus. Selecting Modbus (MB) for "Feature 6: Options Boards" is recommended.

***** 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), P/N 990056, is not available on carbon steel flow bodies