## FT2A Insertion Flow Meter/Temperature Transmitter MODEL CODES

ovember 1, 2013	MODEL FT2	2A				
	Code	Description				
Parent Model No.*	FT2A	Insertion Mass	Flow meter & Temperature Transmitter			
Feature 1: Probe*	06IE		with 6-inch probe (all 6" probes will have an equal length sensor)			
	091		with 9-inch probe			
"See Calculating	12I		with 12-inch probe			
Probe Lengths" Below	15I	Insertion meter with 15-inch probe				
	18I	Insertion meter with 18-inch probe Insertion meter with 24-inch probe				
Commencial Chains	241					
Compression fitting	301		with 30-inch probe with 36-inch probe			
included at no charge	361		50 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts			
Adding an "E" after the probe code	15R 18R		50 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts			
(i.e. 09IE, 18RE, etc.) will provide an equal	24R	24" Probe w/ 1	50 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts			
length sensor. Equal length sensors	30R		50 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts			
must be specified for 1.5" (40mm) and	36R		50 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts			
2" (50mm) pipes. 15R is shipped standard	R1		1.5" NPT, 600 PSI, no valve - 316 SS wetted parts**			
with an equal length sensor.	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			
Feature 2: Sensor Material*	SS	316 stainless st	eel 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			
Feature 3: Sensor Type*	ST		r -40 to 250F (-40 to 121C)			
	HT	High Temperatu	re Sensor 32 to 650F (0 to 343C) E3 or E4 required - AIR ONLY			
Feature 4: Enclosure and Power* E1 E2 E3			enclosure, 24VDC powered			
		Local NEMA 4X enclosure, 85 to 264VAC powered				
		Remote J-box, 24VDC powered, 100' max, cable sold separately ***				
	E4	Remote J-box, 8	35 to 264VAC powered, 100' max, cable sold separately ***			
Feature 5: Bus Options* B0 MB BN BD BP BE		No communicat				
		Modbus (RS 485)				
			BACnet MS/TP (RS 485)			
			DeviceNet			
		Profibus-DP Ethernet Modbus TCP				
Feature 6: Calibration*	G1		than 1200 SCFM (2040 NM3H)			
G2			Air, N2: MF above 1200 SCFM (2040 NM3H) Ar, CO2, H2, CH4, Natural Gas, O2: MF less than 1000 SCFM (1700 NM3H)			
ME – Maximum Flow Bato	G3		4, Natural Gas, O2: MF less than 1000 SCFM (1700 NMSH) 4, Natural Gas, O2: MF above 1000 SCFM (1700 NM3H)			
MF = Maximum Flow Rate G4 G5		CO, He, Ammonia, Propane: MF less than 700 SCFM (1190 NM3H)				
	G6	CO, He, Ammonia, Propane: MF above 700 SCFM (1190 MM3H)				
	G7		Biogas, Digester Gas, Flare Gas, Flash Gas, Vent Gas, all other gases			
Optional	NRT	Non Resettable	Totalizer			
OPTIONS Description		Dout#	<u>OPTIONS</u>			
Description		Part#	Description			
Extra instruction manual		101570	5-conductor, 18 AWG PVC shielded cable for remote. Specify feet (100' max.)			
USB Cable, A-male/mini USB-B male, 3 feet		102299	90 degree elbow kit - makes housing upright in vertical pipes			

Part #	Description	_	Part#	Description
101364	Extra instruction manual		101570	5-conductor, 18 AWG PVC shielded cable for remote. Specify feet (100' max.)
104870	USB Cable, A-male/mini USB-B male, 3 feet		102299	90 degree elbow kit - makes housing upright in vertical pipes
100657	Stainless Steel Tags		890000	Flow meter cleaned and bagged for Oxygen service
999992	Certificate of Conformance		104639	Remote Mounting Kit
999995	Certificate of Origin		102878	Teflon Ferrule Kit

NOTES: \* The Parent Model Number and one of each Feature must be specified.

Example: FT2A-09I-SS-ST-E2-B0-G1

Effect

\*\* 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 104639 Remote Mounting Kit option

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 CODES									
Effective N	e November 1, 2013 MODEL FT2A									
			_							
		Code	De	escription						
	Parent Model No.*	FT2A	In	line Mass Flow I	Meter & Temperature Transmitter					
		•								
	Feature 1 : Flow body*				teel flow body					
		025P			T ends (schedule 40) 5.8" Face-to-face					
		05P			T ends (schedule 40) 12" Face-to-face					
		075P			T ends (schedule 40) 12" Face-to-face					
		10P			ends (schedule 40) 12" Face-to-face					
		125P			PT ends (schedule 40) 12" Face-to-face					
		15P			T ends (schedule 40) 12" Face-to-face					
		20P 25P	-		ends (schedule 40) 12" Face-to-face T ends (schedule 40) 18" Face-to-face					
		30P			ends (schedule 40) 18 Face-to-face					
		05F			Flanges (schedule 40) 18" Face-to-face					
		075F			Flanges (schedule 40) 12" Face-to-face					
		10F			anges (schedule 40) 12" Face-to-face					
		125F			F flanges (schedule 40) 12" Face-to-face					
		15F			flanges (schedule 40) 12 "Face-to-face					
		20F			anges (schedule 40) 12" Face-to-face					
		25F			flanges (schedule 40) 12 Tace-to-face					
		30F			anges (schedule 40) 18" Face-to-face					
		40F	-		anges (schedule 40) 18" Face-to-face **					
		60F			anges (schedule 40) 24" Face-to-face **					
					carbon steel flow body (+ A105 flanges - if ordered)					
		20PC			ends (schedule 40) 12" Face-to-face					
		25PC	-	,	T ends (schedule 40) 18" Face-to-face					
		30PC			ends (schedule 40) 18" Face-to-face					
		20FC			anges (schedule 40) 12" Face-to-face					
		25FC			flanges (schedule 40) 18" Face-to-face					
		30FC		3 inch, 150# RF flanges (schedule 40) 18" Face-to-face 4 inch, 150# RF flanges (schedule 40) 18" Face-to-face ** 6 inch, 150# RF flanges (schedule 40) 24" Face-to-face **						
		40FC								
		60FC	01	IICH, 150# KF II	anges (schedule 40) 24 Face-to-face					
	Feature 2: Sensor Material*	SS	31	6 stainless stee	I sensor and flow body					
		SH	31	6SS flow body	with Hastelloy C276 sensor					
	Feature 3: Sensor Type*	ST	Sta	Standard Sensor -40 to 250F (-40 to 121C)						
	<b>n</b>	HT	-		e Sensor 32 to 650F (0 to 343C) E3 or E4, required - AIR ONLY					
		1	1.							
	Feature 4: Enclosure and Power*				Local NEMA 4X enclosure, 24VDC powered					
		E2	-	.ocal NEMA 4X enclosure, 85 to 264VAC powered						
		E3	-	Remote J-box, 24VDC powered, 100' max, cable sold separately Remote J-box, 85 to 264VAC powered, 100' max, cable sold separately						
		E4	ĸe	mote J-Dox, 85	to 264VAC powered, 100 max, cable sold separately					
	Fosturo F. Bus Ontions*	BO	P1 -		a huo					
	Feature 5: Bus Options*	Ire 5: Bus Options* BO MB			No communication bus Modbus (RS 485)					
		BN	-	Moddus (KS 485) BACnet MS/TP (RS 485)						
		BD	-	viceNet						
		BD	-							
		BE	-	Profibus-DP Ethernet Modbus TCP						
	Feature 6: Calibration*	G1	Air, N2: MF less than 1200 SCFM (2040 NM3H)							
		G2	-		1200 SCFM (2040 NM3H)					
	MF = Maximum Flow Rate	G3								
	G4 G5 G6				Ar, CO2, H2, CH4, Natural Gas, O2: MF above 1000 SCFM (1700 NM3H)					
					CO, He, Ammonia, Propane: MF less than 700 SCFM (1190 NM3H) CO, He, Ammonia, Propane: MF above 700 SCFM (1190 NM3H)					
		G7	-							
		G7 Biogas, Digester Gas, Flare Gas, Flash Gas, Vent Gas, all other gases								
	Optional	NRT Non Resettable Totalizer								
	<b>OPTIONS</b>				<b>OPTIONS</b>					
Part #	Description		_	Part#	Description					
101364	Extra instruction manual			101570	5-conductor, 18 AWG PVC shielded cable for remote. Specify feet (100' max.)					
104870	USB Cable, A-male/mini USB-B male, 3 feet				90 degree elbow kit - makes housing upright in vertical pipes					
100657	Stainless Steel Tags				Flow meter cleaned and bagged for Oxygen service					
999992	Certificate of Conformance		1	104639	Remote Mounting Kit					

 104639
 Remote Mounting Kit

 999987
 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

999992 Certificate of Conformance 999995 Certificate of Origin

\*\*\* Above 2,500 SCFM (4,250 NM3H) consult factory for calibration charge. \*\*\* Recommend 104639 Remote Mounting Kit option