

FT2 Insertion Flowmeter/Temperature Transmitter Model Codes

Effective August 1, 2011

	Code	Description	
Parent Model No.*	FT2	Insertion Mass Flow meter & Temperature Transmitter	
Feature 1: Probe* "See Calculating Probe Lengths" Below Compression fitting included at no charge Adding an "E" after the probe code (i.e. 061E, 18RE) will provide an equal length sensor. Equal length sensors can be used in pipes as small as 1.5" (40mm). Probes 041 and 15R are shipped standard with equal length sensors.	041	Insertion meter with 4-inch probe (for 1.5" & 2" pipes)	
	061	Insertion meter with 6-inch probe	
	091	Insertion meter with 9-inch probe	
	121	Insertion meter with 12-inch probe	
	151	Insertion meter with 15-inch probe	
	181	Insertion meter with 18-inch probe	
	241	Insertion meter with 24-inch probe	
	301	Insertion meter with 30-inch probe	
	361	Insertion meter with 36-inch probe	
	15R	15" Probe w/ 150 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts	
	18R	18" Probe w/ 150 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts	
	24R	24" Probe w/ 150 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts	
	30R	30" Probe w/ 150 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts	
	36R	36" Probe w/ 150 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
	Feature 2: Sensor Material*	SS	316 stainless steel sensor wetted parts
SH		Hastelloy C-276 sensor & probe 12" or less, 316 SS compression fitting	
SJ		Hastelloy C-276 sensor & probe, Hastelloy C-276 compression fitting	
SL		Hastelloy C-276 wetted parts for probe above 12 inches	
Feature 3: Sensor Type*	ST	Standard Sensor -40 to 250F (-40 to 121C)	
	HS	High Temperature Sensor 32 to 400F (0 to 204C)	
	HT	High Temperature Sensor 32 to 650F (0 to 343C) E3 or E4 required - AIR ONLY	
Feature 4: Enclosure*	E1	Local NEMA 4X enclosure, 24VDC powered	
	E2	Local NEMA 4X enclosure, 85 to 250VAC powered	
	E3	Remote with explosion - proof sensor J-box, 24VDC powered, 100' max, no cable	
	E4	Remote with explosion - proof sensor J-box, 85 to 250VAC power, 100' max, no cable	
Feature 5: Display & Config. Panel*	D0	No Display & Configuration Panel	
	DD	Include Rate/Total Display & Configuration Panel	
Feature 6: Bus Options*	B0	No communication bus	
	MB	Modbus	
	BD	DeviceNet - DD REQUIRED	
	BP	Profibus-DP - DD REQUIRED	
	BE	Ethernet Modbus TCP - DD REQUIRED	
Feature 7: Calibration* MF = Maximum Flow Rate Calibration prices listed here are for new flowmeter orders only. Contact Fox for recalibration prices.	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, Digester Gas: MF less than 700 SCFM (1190 NM3H)	
	G6	CO, He, Ammonia, Propane, Digester Gas: MF above 700 SCFM (1190 NM3H)	
	G7	All other gases	
Optional	RTC	Non Resettable Totalizer	

OPTIONS

Part #	Description
101364	Extra instruction manual
101685	RS232 Transition Board
100657	Stainless Steel Tags
999992	Certificate of Conformance
999995	Chamber of Commerce Certificate of Origin
102878	Teflon Ferrule Kit

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
890000	Flow meter cleaned and bagged for Oxygen service
101314	Palm PDA inc expansion card, serial cable & Fox config software
102669	EMI Filters (AC for use with E2 & E4) ***
102671	EMI Filters (24VDC & 4 to 20 mA for use with E1 & E3) ***
102702	EMI Filters (Dual 4 to 20 mA for use with E2 & E4) ***

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

** Retractors R1 - R3: Minimum pipe size is 2". Maximum pipe size is 1/2 the pipe diameter + valve dimension cannot exceed 19.5"

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 D + 3" + Insulation + Retractor (for codes 15R through 36R, add 10"). Round up to next larger probe available.

Quote 4" probe (041) for 1.5" (40mm) and 2" (50mm) pipes. Do not quote 041 for pipes larger than 2".

D = pipe diameter; Insulation = Thickness of insulation (if any); Retractor = Dimension of retractor, if supplied.

Example 1: Pipe ID = 10", no insulation or retractor: 5" + 3" = 8". Round up to 9" probe (091).

Example 2: Pipe ID = 10" with retractor, no insulation: 5" + 3" + 10"(retractor) = 18" (18R).

*** EMI Filter selection:

EMI Filter(s) should be ordered when the flow meter will be installed in an area where electromagnetic interference (EMI) is present. EMI is generated by igniters, electric motors, etc. Specify both 102669 (AC EMI filter) and 102702 (4 to 20 mA filter) when you are ordering E2 or E4 (AC powered) and will use the 4 to 20 mA output. Specify 102671 when ordering E1 or E3

**FT2 Inline Flow Meter/Temperature Transmitter
Model Codes**

Effective August 1, 2011

	Code	Description
Parent Model No.*	FT2	Inline Mass Flow Meter & Temperature Transmitter
Feature 1 : Flowbody*		316 Stainless steel flowbody
	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
	10PS	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
	40P	4 inch, male npt ends (schedule 40) ** 18" Face-to-face
	05F	1/2 inch, 150# RF flanges (schedule 40) 18" Face-to-face
	075F	3/4 inch, 150# RF flanges (schedule 40) 12" Face-to-face
	10FS	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
		A106 Grade B carbon steel flowbody (+ A105 flanges - if ordered)
	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
	40PC	4 inch, male npt ends (schedule 40) ** 24" 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
Feature 2: Sensor Material*	SS	316 stainless steel sensor and flowbody
	SJ	Hastelloy C-276 sensor w/ 316SS flow body & compression fitting
Feature 3: Sensor Type*	ST	Standard Sensor -40 to 250F (-40 to 121C)
	HS	High Temperature Sensor 32 to 400F (0 to 204C)
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** Above 2,500 SCFM (4,250 NM3H) consult factory for calibration charge.

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