

FT2 Insertion Flowmeter/Temperature Transmitter Product Configuration Codes

Effective January 1, 2009

Code	Description																																				
Parent Model No.*	FT2 Insertion Mass Flowmeter & Temperature Transmitter																																				
Feature 1: Probe*	<table border="1"> <tr><td>04I</td><td>Insertion meter with 4-inch probe (for 1.5" & 2" pipes)</td></tr> <tr><td>06I</td><td>Insertion meter with 6-inch probe</td></tr> <tr><td>09I</td><td>Insertion meter with 9-inch probe</td></tr> <tr><td>12I</td><td>Insertion meter with 12-inch probe</td></tr> <tr><td>15I</td><td>Insertion meter with 15-inch probe</td></tr> <tr><td>18I</td><td>Insertion meter with 18-inch probe</td></tr> <tr><td>24I</td><td>Insertion meter with 24-inch probe</td></tr> <tr><td>30I</td><td>Insertion meter with 30-inch probe</td></tr> <tr><td>36I</td><td>Insertion meter with 36-inch probe</td></tr> <tr><td>15R</td><td>15" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts</td></tr> <tr><td>18R</td><td>18" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts</td></tr> <tr><td>24R</td><td>24" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts</td></tr> <tr><td>30R</td><td>30" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts</td></tr> <tr><td>36R</td><td>36" Probe w/ 125 PSI retractor & full port valve - 3/4" male NPT, 316 SS wetted parts</td></tr> <tr><td>R1</td><td>Crank Retractor 1.5" NPT, 600 PSI, no valve - 316 SS wetted parts**</td></tr> <tr><td>R2</td><td>Crank Retractor 1.5", 150# flange, no valve - 316 SS wetted parts**</td></tr> <tr><td>R3</td><td>Crank Retractor 1.5", 300# flange, no valve - 316 SS wetted parts**</td></tr> <tr><td></td><td>Probes over 36" and flange mounting options</td></tr> </table>	04I	Insertion meter with 4-inch probe (for 1.5" & 2" pipes)	06I	Insertion meter with 6-inch probe	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
04I	Insertion meter with 4-inch probe (for 1.5" & 2" pipes)																																				
06I	Insertion meter with 6-inch probe																																				
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																																				
"See Calculating Probe Lengths" Below																																					
Compression fitting included at no charge																																					
Feature 2: Sensor Material*	<table border="1"> <tr><td>SS</td><td>316 stainless steel sensor wetted parts</td></tr> <tr><td>SH</td><td>Hastelloy C-276 sensor & probe 12" or less, 316 SS compression fitting</td></tr> <tr><td>SJ</td><td>Hastelloy C-276 sensor & probe, Hastelloy C-276 compression fitting</td></tr> <tr><td>SL</td><td>Hastelloy C-276 wetted parts for probe above 12 inches</td></tr> </table>	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																												
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*	<table border="1"> <tr><td>ST</td><td>Standard Sensor -40 to 250F (-40 to 121C)</td></tr> <tr><td>HS</td><td>High Temperature Sensor 32 to 400F (0 to 204C)</td></tr> <tr><td>HT</td><td>High Temperature Sensor 32 to 650F (0 to 343C) E3 or E4 required - AIR ONLY</td></tr> </table>	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																														
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*	<table border="1"> <tr><td>E1</td><td>Local NEMA 4X enclosure, 24 VDC powered</td></tr> <tr><td>E2</td><td>Local NEMA 4X enclosure, 85 to 250 VAC powered</td></tr> <tr><td>E3</td><td>Remote with explosion - proof sensor J-box, 24 VDC powered, 100' max, no cable</td></tr> <tr><td>E4</td><td>Remote with explosion - proof sensor J-box, 85 to 250 VAC power, 100' max, no cable</td></tr> </table>	E1	Local NEMA 4X enclosure, 24 VDC powered	E2	Local NEMA 4X enclosure, 85 to 250 VAC powered	E3	Remote with explosion - proof sensor J-box, 24 VDC powered, 100' max, no cable	E4	Remote with explosion - proof sensor J-box, 85 to 250 VAC power, 100' max, no cable																												
E1	Local NEMA 4X enclosure, 24 VDC powered																																				
E2	Local NEMA 4X enclosure, 85 to 250 VAC powered																																				
E3	Remote with explosion - proof sensor J-box, 24 VDC powered, 100' max, no cable																																				
E4	Remote with explosion - proof sensor J-box, 85 to 250 VAC power, 100' max, no cable																																				
Feature 5: Display & Config. Panel*	<table border="1"> <tr><td>D0</td><td>No Display & Configuration Panel</td></tr> <tr><td>DD</td><td>Include Rate/Total Display & Configuration Panel</td></tr> </table>	D0	No Display & Configuration Panel	DD	Include Rate/Total Display & Configuration Panel																																
D0	No Display & Configuration Panel																																				
DD	Include Rate/Total Display & Configuration Panel																																				
Feature 6: Bus Options*	<table border="1"> <tr><td>B0</td><td>No communication bus</td></tr> <tr><td>MB</td><td>Modbus - DD REQUIRED</td></tr> <tr><td>BD</td><td>DeviceNet Bus - DD REQUIRED</td></tr> <tr><td>BP</td><td>Profibus-DP - DD REQUIRED</td></tr> <tr><td>BE</td><td>Ethernet - DD REQUIRED</td></tr> </table>	B0	No communication bus	MB	Modbus - DD REQUIRED	BD	DeviceNet Bus - DD REQUIRED	BP	Profibus-DP - DD REQUIRED	BE	Ethernet - DD REQUIRED																										
B0	No communication bus																																				
MB	Modbus - DD REQUIRED																																				
BD	DeviceNet Bus - DD REQUIRED																																				
BP	Profibus-DP - DD REQUIRED																																				
BE	Ethernet - DD REQUIRED																																				
Feature 7: Calibration*	<table border="1"> <tr><td>G1</td><td>Air, N2: MF less than 1200 SCFM (2040 NM3H)</td></tr> <tr><td>G2</td><td>Air, N2: MF above 1200 SCFM (2040 NM3H)</td></tr> <tr><td>G3</td><td>Ar, CO2, H2, CH4, Natural Gas, O2: MF < 1000 SCFM (1700 NM3H)</td></tr> <tr><td>G4</td><td>Ar, CO2, H2, CH4, Natural Gas, O2: MF > 1000 SCFM (1700 NM3H)</td></tr> <tr><td>G5</td><td>CO, He, AMMONIA, PROPANE, DIG. GAS: MF < 700 SCFM (1190 NM3H)</td></tr> <tr><td>G6</td><td>CO, He, AMMONIA, PROPANE, DIG. GAS: above 700 SCFM (1190 NM3H)</td></tr> <tr><td>G7</td><td>All other gases</td></tr> </table> <p>MF = Maximum Flow Rate Calibration prices listed here are for new flowmeter orders only. Contact Fox for recalibration prices.</p>	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 < 1000 SCFM (1700 NM3H)	G4	Ar, CO2, H2, CH4, Natural Gas, O2: MF > 1000 SCFM (1700 NM3H)	G5	CO, He, AMMONIA, PROPANE, DIG. GAS: MF < 700 SCFM (1190 NM3H)	G6	CO, He, AMMONIA, PROPANE, DIG. GAS: above 700 SCFM (1190 NM3H)	G7	All other gases																						
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 < 1000 SCFM (1700 NM3H)																																				
G4	Ar, CO2, H2, CH4, Natural Gas, O2: MF > 1000 SCFM (1700 NM3H)																																				
G5	CO, He, AMMONIA, PROPANE, DIG. GAS: MF < 700 SCFM (1190 NM3H)																																				
G6	CO, He, AMMONIA, PROPANE, DIG. GAS: 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 Compliance
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	Flowmeter 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 (24 VDC & 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 flowmeters can be installed on 1.5" pipes or larger. Quote Inline Flowmeters 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 (04I) for 1.5" (40mm) and 2" (50mm) pipes. Do not quote 04I 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 (09I).

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 flowmeter 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 Flowmeter/Temperature Transmitter Product Configuration Codes

Effective January 1, 2009

	Code	Description	
Parent Model No.*	FT2	Inline Mass Flowmeter & temperature transmitter	
Feature 1 : Probe/Body*	025PN	1/4 inch 316ss flow body with male npt ends (schedule 40); Very low flow	
	025P	1/4 inch 316ss flow body with male npt ends (schedule 40)	
	05P	1/2 inch 316ss flow body with male npt ends (schedule 40)	
	075P	3/4 inch 316ss flow body with male npt ends (schedule 40)	
	10P	1 inch 316ss flow body with male npt ends (schedule 40)	
	125P	1.25 inch 316ss flow body with male npt ends (schedule 40)	
	15P	1.5 inch 316ss flow body with male npt ends (schedule 40)	
	20P	2 inch 316ss flow body with male npt ends (schedule 40)	
	25P	2.5 inch 316ss flow body with male npt ends (schedule 40)	
	30P	3 inch 316ss flow body with male npt ends (schedule 40)	
	40P	4 inch 316ss flow body with male npt ends (schedule 40) **	
	05F	1/2 inch 316ss flow body with 150# RF flanges (schedule 40)	
	075F	3/4 inch 316ss flow body with 150# RF flanges (schedule 40)	
	10F	1 inch 316ss flow body with 150# RF flanges (schedule 40)	
	125F	1.25 inch 316ss flow body with 150# RF flanges (schedule 40)	
	15F	1.5 inch 316ss flow body with 150# RF flanges (schedule 40)	
	20F	2 inch 316ss flow body with 150# RF flanges (schedule 40)	
	25F	2.5 inch 316ss flow body with 150# RF flanges (schedule 40)	
	30F	3 inch 316ss flow body with 150# RF flanges (schedule 40)	
	40F	4 inch 316ss flow body with 150# RF flanges (schedule 40) **	
	60F	6 inch 316ss flow body with 150# RF flanges (schedule 40) **	
		300# RF flanges	
	Feature 2: Sensor Material*	SS	316 stainless steel sensor and flowbody
		SJ	Hastelloy C-276 sensor w/ 316SS flow body & compression fitting
SL		Hastelloy C-276 all wetted parts	
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, 24 VDC powered	
	E2	Local NEMA 4X enclosure, 85 to 250 VAC powered	
	E3	Remote with explosion - proof sensor J-box, 24 VDC powered, 100' max, no cable	
	E4	Remote with explosion - proof sensor J-box, 85 to 250 VAC 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 - DD REQUIRED	
	BD	DeviceNet Bus - DD REQUIRED	
	BP	Profibus-DP - DD REQUIRED	
	BE	Ethernet - DD REQUIRED	
Feature 7: 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 < 1000 SCFM (1700 NM3H)	
	G4	Ar, CO2, H2, CH4, Natural Gas, O2: MF > 1000 SCFM (1700 NM3H)	
	G5	CO, He, AMMONIA, PROPANE, DIG. GAS: MF < 700 SCFM (1190 NM3H)	
	G6	CO, He, AMMONIA, PROPANE, DIG. GAS: above 700 SCFM (1190 NM3H)	
	G7	All other gases	
		MF = Maximum Flow Rate Calibration prices listed here are for new flowmeter orders only. Contact Fox for recalibration prices.	
Optional	RTC	Non Resettable Totalizer	

OPTIONS

Part #	Description
101364	Extra instruction manual
101685	RS232 Transition Board
100657	Stainless Steel Tags
999992	Certificate of Compliance
999995	Chamber of Commerce 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
890000	Flowmeter 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 (24 VDC & 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.

** Above 2,500 SCFM (4,250 NM3H) consult factory for calibration charge.

*** EMI Filter selection:

EMI Filter(s) should be ordered when the flowmeter 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.