



FT1 Insertion Flow Meter
MODEL CODES

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MODEL FT1 INSERTION METER

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	Code	Description
Parent Model No.*	FT1	Insertion Mass Flow meter; includes 4 to 20 mA and USB outputs
Feature 1: Probe*	06I	Insertion meter with 6-inch probe
See "Calculating Probe Lengths" Below	09I	Insertion meter with 9-inch probe
	12I	Insertion meter with 12-inch probe
1" MNPT compression fitting included standard	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/ 150-psi retractor & full port valve, 1" male NPT, 316 SS wetted parts
18R	18" probe w/ 150-psi retractor & full port valve, 1" male NPT, 316 SS wetted parts	
24R	24" probe w/ 150-psi retractor & full port valve, 1" male NPT, 316 SS wetted parts	
30R	30" probe w/ 150-psi retractor & full port valve, 1" male NPT, 316 SS wetted parts	
36R	36" probe w/ 150-psi retractor & full port valve, 1" male NPT, 316 SS wetted parts	
Feature 2: Display*	D0	No display & configuration panel
	DD	Include rate/total display & configuration panel
Feature 3: Outputs*	P1	4 to 20mA + Pulse Output
	RS	4 to 20mA + RS485 (Modbus RTU or BACnet MS/TP - Field selectable)
	BH	4 to 20mA/HART + Pulse Output

OPTIONS

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Part #	Description
106012	Extra FT1 Instruction Manual
100657	Stainless Steel Tags
999995	Certificate of Origin
999992	Certificate of Conformance
109040	Sun Shade accessory

Part#	Description
104870	USB Cable, A-male/mini USB-B male, 6' length
101331	3/4" MNPT compression fitting for insertion probe process connection
106728	AC to 24VDC power converter with DIN mounting rail
890000	Flow meter cleaned and bagged for Oxygen service
106415	Teflon Ferrule Kit, 60 psi max. pressure

Notes: * The Parent Model Number and one of each Feature must be specified.
Example: FT1-09I-DD-RS
See separate model code document for FC20 Flow Conditioners for use with insertion style flow meters.

Insertion flow meters can be installed in 1.5" pipes or larger. Select Inline flow meters for pipes smaller than 1.5" (40mm).
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 to 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 FT1 INLINE METER

	Code	Description
Parent Model No.*	FT1	Insertion Mass Flow meter; includes 4 to 20 mA and USB outputs
Feature 1 : Flow Body Size*		316 Stainless Steel Flow Body
	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
	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**
		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: Display*	D0	No display & configuration panel
	DD	Include rate/total display & configuration panel
Feature 3: Outputs*	P1	4 to 20mA + Pulse Output
	RS	4 to 20mA + RS485 (Modbus RTU or BACnet MS/TP - Field selectable)
	BH	4 to 20mA/HART + Pulse Output

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Part#	Description
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100657	Stainless Steel Tags
999992	Certificate of Conformance
999995	Certificate of Origin
109040	Sun Shade accessory
104870	USB Cable, A-male/mini USB-B male, 6' length
106728	AC to 24VDC power converter with DIN mounting rail
890000	Flow meter cleaned and bagged for Oxygen service
990099	Canadian Registration Number (CRN) engraved on flow body***

Notes: * The Parent Model Number and one of each Feature must be specified.
Example: FT1-20P-DD-BH

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

*** Canadian Registration Number (CRN), P/N 990099, is not available on carbon steel flow bodies