

**Fox Thermal Instruments, Inc. Model 10A Insertion Mass Flowmeter**

	Code	Description	
Parent Model No.*	10A	Insertion Mass Flowmeter with Display and Configuration Panel	
Feature 1: Probe*  See "Calculating Probe Length" Below	04I	Insertion meter with 4-inch probe (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/ 60 PSI retractor & full port valve - 3/4" male NPT process connection	
	18R	18" Probe w/ 60 PSI retractor & full port valve - 3/4" male NPT process connection	
	24R	24" Probe w/ 60 PSI retractor & full port valve - 3/4" male NPT process connection	
	30R	30" Probe w/ 60 PSI retractor & full port valve - 3/4" male NPT process connection	
	36R	36" Probe w/ 60 PSI retractor & full port valve - 3/4" male NPT process connection	
		Probes over 36" and flange mounting options	
		R1	Crank Retractor 1.5" NPT, 600 PSI, no valve included - note 2
	R2	Crank Retractor 1.5", 150# flange, no valve included - note 2	
	R3	Crank Retractor 1.5", 300# flange, no valve included - note 2	
Feature 2: Sensor Material*	SSS	316 stainless steel sensor wetted parts	
	SHS	Hastelloy C-276 sensor & probe w/ 316SS compression fitting, 12" max.	
	SHL	Hastelloy C-276 wetted parts for probe above 12 inches	
Feature 3: Enclosures*	ELE	Local explosion-proof enclosure, 24vdc powered	
	ERD	Remote Exp. Proof encl; 24vdc; 500' max; no cable; see options	
	ERA	Remote NEMA 4X encl; 115/230vac; 500' max; no cable; see options	
		NOTE: ERA is not FM or CSA approved	
Feature 4: Sensor Type*	ST	Standard Sensor -40 to 250F (-40 to 121C)	
	HS	High Temperature Sensor 32 to 400F (0 to 204C)	
Feature 5: Agency Approval*	NAA	No Agency Approval	
	FM	FM approved; see data sheet; 18 inch probe maximum	
	CSA	CSA approved; see data sheet; 36 inch probe maximum	
Feature 6: Calibration*  MF = Maximum Flow Rate	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: MF less than 700 SCFM (1190 NM3H)	
	G6	CO, He, AMMONIA, PROPANE: above 700 SCFM (1190 NM3H)	
	G7	All other gases	
Options	100133	Extra instruction manual	
	100426	2 conductor, 18 AWG PVC cable for remote. Specify feet.	
	100585	Power supply, 115vac in; 24vdc output - indoor	
	100506	Power supply, 115vac in; 24vdc out in NEMA 4X enclosure	
	100657	Stainless Steel Tags	
	890000	Flowmeter cleaned and bagged for Oxygen service	

**NOTES:**  
 1) \*The Parent Model Number and one of each Feature must be specified.  
 Example: 10A-12I-SSS-ELE-ST-FM-G1= 2000+40+0+0+0+50+300 = \$2390  
 2) 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 + 2" + 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: Pipe ID = 10", no insulation or retractor: 5" + 2" = 7". Round up to 9" probe (09I).

### Fox Thermal Instruments, Inc. Model 10A In Line Mass Flowmeter

	Code	Description	
Parent Model No.*	10A	In Line Mass Flowmeter with Display and Configuration Panel	
Feature 1 : Flowbody*	025P	1/4 inch 316ss flowbody with male npt ends (schedule 40)	
	05P	1/2 inch 316ss flowbody with male npt ends (schedule 40)	
	075P	3/4 inch 316ss flowbody with male npt ends (schedule 40)	
	10P	1 inch 316ss flowbody with male npt ends (schedule 40)	
	15P	1-1/2 inch 316ss flowbody with male npt ends (schedule 40)	
	20P	2 inch 316ss flowbody with male npt ends (schedule 40)	
	25P	2-1/2 inch 316ss flowbody with male npt ends (schedule 40)	
	30P	3 inch 316ss flowbody with male npt ends (schedule 40)	
	40P	4 inch 316ss flowbody with male npt ends (schedule 40)	
	05F	1/2 inch 316ss flowbody with 150# RF flanges (schedule 40)	
	075F	3/4 inch 316ss flowbody with 150# RF flanges (schedule 40)	
	10F	1 inch 316ss flowbody with 150# RF flanges (schedule 40)	
	15F	1.5 inch 316ss flowbody with 150# RF flanges (schedule 40)	
	20F	2 inch 316ss flowbody with 150# RF flanges (schedule 40)	
	25F	2.5 inch 316ss flowbody with 150# RF flanges (schedule 40)	
	30F	3 inch 316ss flowbody with 150# RF flanges (schedule 40)	
	40F	4 inch 316s flowbody with 150# RF flanges (schedule 40)	
	60F	6 inch 316ss flowbody with 150# RF flanges (schedule 40)	
			Contact Fox for 300# flange options & flowbodies made of tubing
	Feature 2 : Sensor Material*	SSS	316 stainless steel wetted parts
SHS		Hastelloy C-276 sensor w/ 316SS flow body & compression fitting	
SHF		Hastelloy C-276 all wetted parts	
Feature 3 : Enclosures*	ELE	Local explosion-proof enclosure, 24vdc powered	
	ERD	Remote exp. proof encl; 24vdc; 500' max; no cable; see options	
	ERA	Remote NEMA 4X enclosure; 115/230vac; 500' max; no cable	
		Note: ERA is not FM or CSA approved	
Feature 4 : Sensor Type*	ST	Standard Sensor -40 to 250F (-40 to 121C)	
	HS	High Temperature Sensor 32 to 400F (0 to 204C)	
Feature 5 : Agency Approval*	NAA	No Agency Approval	
	FM	FM approved for Hazardous Areas; see data sheet.	
	CSA	CSA approved for Hazardous Areas; see data sheet.	
Feature 6 : 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: MF less than 700 SCFM (1190 NM3H)	
	G6	CO, He, AMMONIA, PROPANE: above 700 SCFM (1190 NM3H)	
	G7	All other gases	
Options	100133	Extra instruction manual	
	100426	2 conductor, 18 AWG PVC cable for remote. Specify feet.	
	100585	Power supply, 115vac in; 24vdc output - indoor	
	100506	Power supply, 115vac in; 24vdc output in NEMA 4X enclosure	
	100657	Stainless Steel Tags	
	890000	Flowmeter cleaned and bagged for Oxygen service	

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

Example: 10A-20F-SSS-ELE-ST-FM-G1 = 2400+350+0+0+0+50+300 = \$3100